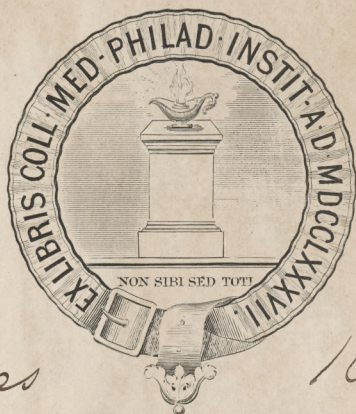


~~10940~~ 51514

C



Class

10a

No 108, v. 2

Presented by

Edward Shippen, Esq.

Dr. Shippen's Notes
on

Lectures on the

Practice of

Physic by

D. Nash

1859

from

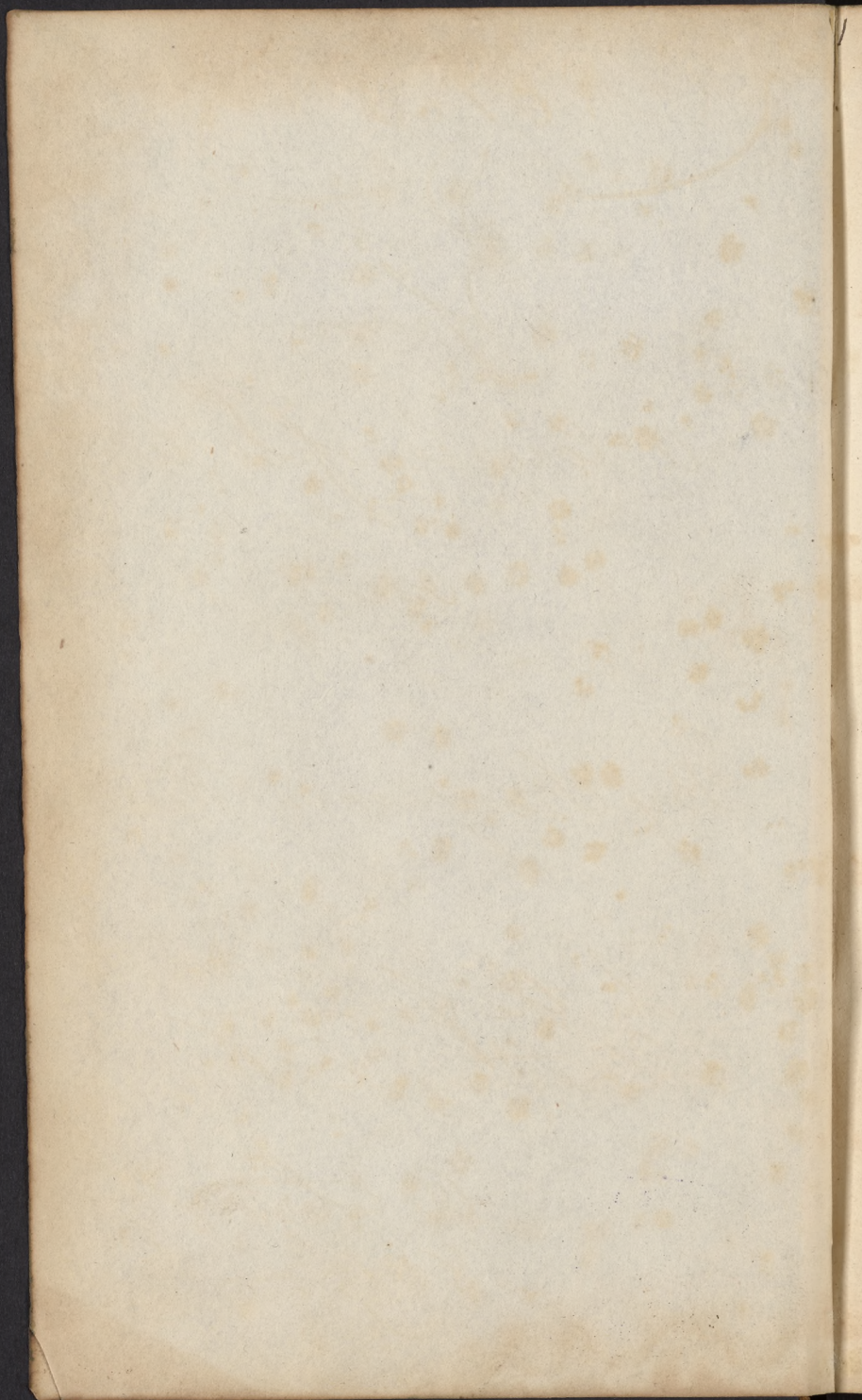
a course of lectures

on

Benjamin Franklin

the form of

October 8th
1859

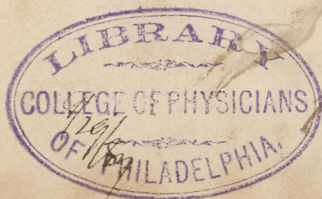


Notes
from

a Course of Lectures
on

By Benjamin Rush.

In the form of
Questions —



October 8th
1809 —



Handwritten in blue ink:
1875
J. H. Smith

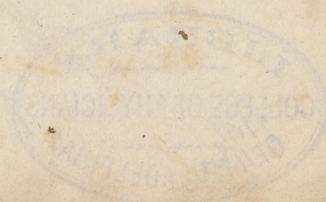
Handwritten in blue ink:
A course of lectures

Handwritten in blue ink:
on

Handwritten in blue ink:
the principles of medicine

Handwritten in blue ink:
for the use of students

Handwritten in blue ink:
J. H. Smith



In what is comprehended
the institutes of Med -

what are they

what S^d I of Dr. Chevet?

what occasioned Dr. Hall's
want of Success in Prac-
tice -

what of Dr. Haller's
Physiologia -

what of Blumenbach -

In what a comfortable
the most comfortable of them

What are they

What is it of R. G. G. G.

What is it of R. G. G. G.
What is it of R. G. G. G.
What is it of R. G. G. G.

What is it of R. G. G. G.
What is it of R. G. G. G.

What is it of R. G. G. G.
What is it of R. G. G. G.

How many modes of
acquiring knowledge
of med & what are they -
1 observation, and experience
& reading.

Should we read on disea-
ses as they occur in
Public & Private practice -

What are the advanta-
ges of attending lectures?

What kind of pulse is
a uniform symptom of
first stage of madness -

There are many copies of
a young man's copy
of which I wish to see the
other nature and description
of reading.

There are two or three
in the copy as well as
the original of the text.

What are the contents
of the following letters?

What kind of paper is
a new form of the
first stage of an address?

What are the advantages
of attending the Sick

What respecting time of
your visits? -

Is it necessary to be a
good apothecary in order
to be a good Physician -

Should you attend to com-
mon or uncommon cases
& why -

What are the common
of attending the sick

What important
your friends

It is necessary to be
good after the way is clear
to be a good physician

Should you attend to
men or women
Why

Oct 9
2 Lecture

£5

What questions to be
asked patients -

Duration time - Sudden
ness, or gradual, duration
of exciting cause -
remote cause, diet exer-
cise habits of early life -
predisposing cause -

Habits - tempers - Nature
country - - - - previous
attacks of same disease -
Occupation - family reme-
dies - proximate cause
& symptoms, seat,
what circumstances,
increase or lessen pain -
State of alimentary canal -

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

How does diff^t times of day effect the pulse?

How does sleep & waking states affect the Pulse? —

How does different positions of body influence the pulse —

How the position of arm? —

Does food & Drink effect the pulse? —

How do exercises of under standing & passions — which passions excite & which diminish it?

all stimulating remedies have an
effect upon the pulse. Such as
opium, wine bark, Camphor
Asafetida, "Porter, blistering &c."

How does Pregnancy
affect Pulse? Is it ^{more} active
than natural -

How does menstruation
affect Pulse? Same as
Pregnancy -

How Does ~~not~~ Suspension of
respiration affect Pulse?

What Remedies increase
the pulse? -

Is there not an opium
bark & mercurial
pulse? - "All these remedies
increase the pulse."
How does fear act on
pulse? -

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

Rush
Lecture 2-

10

How is pulse in inflam-
med part? —

Should we rely on any
one sign

In what does it depart
from health & order?

1. ^{st.} In frequency &

I quickness -
 what the difference of
 them -

What is frequency occasioned by?

What's its slowness -

Q - Pressure on brain, Spasm in heart, miasma -

2 Does it depart from health in force & regularity -

What is depressed pulse? under what forms? -

In what diseases is it met with

as in Pleurisy yellow fever

Small pox & Billious Pleurisy

Is it ever partial that

I am writing -
What the difference of
them -

What is frequency of
times by 2
What is the difference -

— Difference in hours, days
in heart, in minutes -

I am to depart from
health in favor of hope

What is difference in
under what forms? -

I expect this same will
not with

In the morning, when I
am at home, I feel
I am at home, I feel
I am at home, I feel

that is at the extremities?
What is it owing to —
When in the arm what
occasions it —

Does heart & arteries
retain irritability —

What do they resemble

How shall we distin-
guish depressed from
weak pulse

1 — 1 from its occurring
Suddenly.

2 from irregularity —

3

4

Is it suffocated externally
~~at~~ Is depressed pulse
more or less subject to
intermissions than weak

What is it to be a
man in the same way?

As a man it -
How heart & brain

return to the
What is the result
How shall we be

great things from
great things

It is for it to be
Liberation.

2 for the world
3

4
Is it to be a man
to be a man
to be a man
to be a man

What Small I then
Am - Catgut gut -

Is there full round
frog? I quick - called
Sinocus fatis

4 Is there quick frog
not round but then I feel
Does it occur
It is *Sinoca Pulse*

5 Is there a quick frog & then
but small - In chronic
fevers, like small gut
is *Sinocula* -

What is the name of the
the first of the

the first of the
the first of the

the first of the
the first of the
the first of the

the first of the
the first of the
the first of the

What is Senoicus mites

What is Senoicus mites

What Senoicoid

What is Senoicoid

What kind of pressure ^{tension}

On what does tension
depend - In Senoicus
pulsus the arteries only
In Senoicoid the arti-
ries themselves are disordered

Free pt. now & then feel
round & turn -

In begin jail Hor

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

What is known of the

Ship fever - Called typhoid

What typhus pulse

how occur

What State Blood vessels

What kind of remedies
required? This likened
to tree bent by lightning

10 Is there not a full
row

called Gazens Pulse

May it not be owing to

Ship from - called -

last at -

now -

last at -

last at -

to the -

10 -

called -

most -

Air in elastic State 2

11 - Is there not a fluctuating pulse -

What forms -

A great force to weakness
 & vice versa, & unequal
 intermissions - also differ
 ing in frequency -

When first Stroke Strong
 called Decretus - When
 later Stroke the caputizans

Caputizans

vermicular pulse

Creeping Pulse

See in the other Note 2.



11 - 2. There is a...

very fine...

What form...

great form to...

of a new...

interference - also...

ing a...

when first...

called the...

later than...

refuge...

one of the...

very fine...

be as not the morbid States
 of the pulse attributed by
 C Boerhaave to the State
 of the cerebellum -

Are not the diff^t pulses
 combined in two fold,
 three & four fold way? -

ful strong & freq^t.

also full strong quick &
 freq^t -

Is there not a full &
 bounding - Does not it
 occur in apoplexy Drop
 sy & Palsy in which last
 is not it diff^t on
 different sides -

was not the reason that
of the further the better day
C. Deane to the State
of the constitution

we not the off. / further
can have in two years
there of our fall

for thing of
also full thing of
of the
of there not a full
bouncing - does not
even in the
of Deane is not
is not the
of the

Does not weakness &
frequency of pulse generally
go together which extends
to all animals -

What is the aneurismal
pulse - A, a pulse which con-
tains a jar, or thrill, sometimes like
separation of a water running down
a chain ^{when chain is broken}
Is there not an absence
of pulse for hours & days?
What case that occurred
to me -

What can does Dr Hall
relate of want of pulse?

What places of the diff
pulses do I place the on

Don not forget to
 frequency of public papers
 go to get the which extend
 to the Government -

What is the Government to
 do? - A public school can
 have a part in this, but the
 Government must be willing to
 have the school be a
 part of the Government
 of public papers & days
 What can that be
 to me -

What can be done to
 the extent of public papers

What is the office
 of the Government to

on my Scale? —

what Does Dr Borden
say of the Pulse —

~~but~~ How does he divide
the pulses? —

which the Superior &
inferior

what is Mr Derras'
division? Vascular —

what does Dr R say
generally of Borden's
work —

on my death?

What does Dr. Borden
say of the Bible?

Let him then be silent
the Bible? —
What is the reference to
reference

What is Mr. Borden's
response? —

What does Dr. Borden
generally say on Borden's
work?

Lecture 3 ^{dy}

What respecting time of feeling?

What attention to his speaking before feeling pulse? —

How many fingers should you apply —

Which and on right & left pulse? —

With what force & whether gradually —

How should arm be placed the pulse of which you are about to feel? —

How many strokes of pulse in difficult cases, should you feel —

How many do the Chinese feel of the pulse? —

Picture 3

What an interesting time of
feeling
but attention to his work
and before feeling better -

Then many people stand
openly -
but in an eight 1/2 ft
cube -
with what few bottles
openly -

Then stand and in front
the further of what you see
want to feel -

Then in any state of feeling
is difficult even to stand you
free -

Then in any to the others
feeling of the feeling -

What means to be used to
concentrate Sensibility in the
fingers? —

For what purpose should we
suspend feeling pulse for a time?

When artery at wrist can
not be felt what artery is
to be felt? —

What objections to the minute
glasses used in Britain?

They give us only the frequency

Does any thing influence the
frequency without affecting
it in other ways - & what? —

Should the pulse direct us
in any thing excepting the
use of lancet? —

- 1 Motion Sensation & thought
- 2 Motion & Sensation -
- 3 Motion -
- 4 Because of motion we are certain, but not certain whether of that kind called vibration, & which, but if it did exist would ~~not and~~ give no additional aid in explaining the phenomena -
- 5 yes -
- 6 No
- 7 all parts except hair nails & ^{of the body}
- 8 a Capacity to receive an impression of which the mind is immediately conscious -
- 9 a Susceptibility of action on the application of a Stimulus -

Physiology

Animal life

- 1 What constitutes perfect life?
- 2 What less perfect life? -
- 3 What essentially necessary to all degrees of life -
- 4 Why do I prefer motion to vibration when applied to life -
- 5 Has the body any inherent motion -
- 6 Ought matter to be divided into active & passive -
- 7 What parts of the body is endowed with sensibility?
- 8 What is sensibility -
- 9 What is excitability? -
What is the effect of impression on one part?
- How do you divide motions -

1 yes - both in kind & degree

2 yes - but this forced state is not
necessarily incompatible with
a vis vite, vis medicatrix natura

3 Stimuli -

4 excitement

6

1 Is there any difference of the excitability in diff^t parts of the body -

2 Is animal life a forced state? -

3 What supports life? -

4 What are the effects of stimuli? -

How do you divide Stimuli? which are external & which internal -

May voluntary actions become involuntary or vice versa? -

6 What are instances of them? -

What is the next Stimuli to air in production of animal life? - light -

Sound - counter acts ^{dear} School by & what is the effect of habit & in what instances? -

Under what circumstances will a faint of urine

1 in divided portions on an empty Stomach
by sipping for instance the given quantity
in half an hour with blade of a Knife

They are dull because they are without
the Stimuli of noise & conversation &
the variety and excitement wh. the

1 in toxicate it is on the soon
ext? -

2 What of dulness deaf
people -

4 O clars How does it shine

Heat

What of its deprivation
on certain animals in
winter -

Position of body

Pleasure of Senses

What are internal Stimuli

Food, which acts on tongue
on stomach by quantity &
quality -

1. The first of these is the
fact that the population of
the world is increasing at a
rapid rate. This is due to
a number of causes, the most
important of which are the
decrease in the death rate
and the increase in the birth
rate. The death rate has
fallen in almost every part
of the world, and the birth
rate has risen in many
places. This has led to a
rapid increase in the
population of the world.
The second of these is the
fact that the population of
the world is becoming more
urban. This is due to the
fact that people are moving
from the countryside to the
cities. This is due to a
number of causes, the most
important of which are the
fact that there are more
jobs in the cities and the
fact that the cities are
more attractive than the
countryside. This has led to
a rapid increase in the
urban population of the
world.

what of cedar post & old
Bible Supporting life? —

Kil

Blood — How does it Sterner
late?

How does certain tension
of glands effect life —

Has faculties of mind any
influence on life? —

What is mind to life? —

Is the premium motive of
life? —

In what places are the
influences of faculties of mind
indicated —

What of exercise of under-
standing in cold & hunger?

How does the imagination
act wth the Passions
which passions are Sterner la-
vier —

What are ~~common~~ emotions? —

What did Dr Darwin do
to overcome the fatigue of
travelling? —

Are persons of ~~less~~ vigorous
understandings & strong passions
long or short lived generally? —

Is the mind active or passive
in a sound sleep? —

How does the diff^t times
of day affect life? —

What constitutes health as
respects stimuli external &
excitability? —

In what does Dr P^r differ
from ~~Dr~~ Dr Brown on
this subject? —

What are the effects of
usual & unusual sounds? -

What is the sleeping point? -
What is what I call an
healthy grade of apoplexy?

Is not more air dephlogis-
ticated in sleep than waking
state? -

Is not a moderate supper
favorable to sound sleep? -

Does not the stimulus of
urine act on system & is it
not productive of dreams
sometimes? -

Does not the face act on
the brain as a stimulus? -

Is not convulsion excited
by distressing dreams?

What is the beneficial
effect of the night mare? -

Stimulus of Senses

Motions as Stimuli

Which predominates most
in infants, excitability? —

Laughing & crying? —

Between what periods is
human life generally in ex-
cess? —

Between what periods ^{of life} do
fewest people die —

What is the state of the appe-
tite in advanced life? —

What is peculiar respecting
the faces of old people —

Is cancer most common
in what period of life? —

What is the most active
passion in old age? —

Is not talking of service
in old age —

Does not sensibility predomi-
nate irrelatability in old people
as well as in children? —

Which sex live to be old
~~than men~~ est? —

Which to be very old? —

Lecture 4th

Is not the defect of a
sense productive of increase
of energy of mental faculties? —

What is long fasting the
effect of? —

~~It is~~ Does it not pro-
duce acidity in Saliva, tears
gastric juice & fetid breath?

Is not life kept up by in-
crease of sensibility under
such circumstances

How is life supported in
asphyxia, when all stimuli
is abstracted - Is there not
here a loss of excitability
extrem^t, but a continuance
of excitability?

Is not excitability the ~~best~~
vehical of motion & motion
of sensation?

What does ~~the~~ Hunter sup
pose would take place on the
sudden freezing of the Body? -

What was mentioned of
Dr Franklin respecting flies
in bottles of wine? & the ~~same~~

Is not a ^{France} ~~trans~~ the same
state as produced by the
effect of Drowning? -

What of a gentleman who
had to appear and died &
heard the conversation of

his mode of burial in one
of the West India Islands? -

In Dreams do persons
retain a full exercise of
their minds - Is not tran-
sient vivid Dreams? -

What is the cause of the
vacant countenance & timi-
dity? What cause of their
want of curiosity? -

How is life in the Turkish
Empire? -

Does hope & joy ~~and~~ sel-
dom add a single pulsation
to his heart -

What are substitutes for
want of social & political
stimuli - Is it not coffee
specimen Heat of climate? -
& Coffee of *Datura Stramonium*
um? -

Can man exist without
sensation some ~~some~~ kind
& what are the artificial
ones for the mere want of
natural -

Is not the desire of life
a powerful stimulus to its
support? - yes indeed ¹³¹

Is not vegetable life as
much the offspring as ani-
mal -

Does not a seed grow like
an animal only in consequence
of its capacity of life in con-
sequence of stimuli upon it? -

What was Pythagoras'
opinion -

What is Stahl's life called?
My doctrine leads to believe
that animal life consists of
mind & body? -

By what modes is death
produced? -

Can man exist without
some kind of
what are the outposts
of man for the whole world?
Nature -

I met the theme of life
a hundred times & it
appears - the world is
a vegetable life or
much the offspring of an
egg -

Does not a seed grow like
an animal with a beginning
of its capacity of life & in
the process of time open the
what was P. Huxley
Opinion -

What a still life called
My intention has to be
that man is the center of
my body?
But it is not in itself
a

5
Is not Death induced by
salutation of contiguity -

Also by ossification of diff^t
parts of the body -

If Dr R is asked what is
the it that pre-disposes the
Body to be acted on, ^{by Stimuli} will he
not wisely answer I do
not know? -

Do we not think by force?
If not, why ^{can} we not by
volition cease to think? -

Under what two extensive
heads are ~~the~~ all the articles of
the materia medica placed? -

Will not the Soul & Body of
Man ~~will~~ be immortal? -

As not health improved by
labour of contemplation -
also by application of office
parts of the body -

Of the mind is asked what is
the it that pre-occupies the
mind to be a task in which he
not himself engaged I do
not know -

Do we not think by force
of our will as we are by
what we can do think -
Under what the conditions
has one of all the conditions
the most perfect order possible -

What is the task of the body
What is the mind to be
What is the body to be

What is the mind to be
What is the body to be
What is the mind to be

Lecture

What is the difference in heat in old age?

Is it same in male & female?

How much greater is the heat at source of circulation -

What says Mr Hunter abt heat in diff't pts of body -

Is heat greater or less in sleeping state & what difference -

Is heat not sometimes unequally distributed -

Is it ever above & below 98 Degrees -

Does fermentation take place in blood to produce heat -

Do putrefactions generate heat -

Is heat diminished before death - Is not heat

in fermentation confined to
its vinous state?

Does heat depend on the ^{friction of} blood
in vessels?

Why does it not? —

Does not Dr. Matter say that
the increase of ~~surface~~ ^{surface} makes
up want of velocity in dis-
tant pts? —

Can water in vessel by
shaking produce heat? —

Has not the heat by Dr
Cullen ^{been} attributed to the vi-
tal principle —

Whence in combustion
is the heat derived? —

Is not the lungs as it were
a fire place —

If there any animal
in the world without air —

How do birds respire? —

How do fishes respire?

in former station conferred to
the various that I
Do not best depend on the
in respect to
but have it not
how that I should say that
the career of ^{business} ~~business~~ ^{business} ~~business~~
up front of me and
that I have
can be in one by
the history of the
I have not the best of
Culver, ^{but} ~~but~~ ^{but} ~~but~~
for the first time
wherein a number of
the best of
about the day of
a first place in the
the first of the
the first of the
the first of the
the first of the
the first of the
the first of the

How are insects supplied with air?

Do not snails die without air?

Has not even the toad in trees & rocks supplied with air? —

How great is heat ^{of fish} above the water in which the fishes swim? —

How many cubic inches in a minute is consumed in lungs?

Is not heat in proportion to comparative size of the lungs?

Why is the red colour of the blood in arteries to be attributed to the oxygen? —

How much warmer is the blood in arteries than in veins?

Is it not $1\frac{1}{2}^{\circ}$ ~~& 2~~?

Is not the heat of the body

I met the rest of the day
It was 4 1/2 to 5
had in water then a rain
I was much worried as the
is attributed to the copper?
of the blood in relation to
why in the red blood
copper
to compensate loss of the
I met a few people
in large
is a minute in morning
I was very early taking
I was
the water in which the fish
I was great a lot of
I was
then I was suffering with
I was over the day in
out air?
I met most the with
with air
I was the vessel supplied

the Same when pulse 40 -

Is not heat in lungs but
one degree greater than other
places -

Is not there heat in the
extremities sometimes great
when lungs heat is less -

Does not heat take place
by friction

Does not the same Stimuli
produce animal heat that
produces animal ^{life} heat? -

Is not air production of
animal life & heat? -

May we not admit that
a part of heat is ^{from} ~~in~~ lungs
by decomposition of air

Do not passions of the
mind increase the heat? -

Is not the head not unusu-
ally warm in intermitt.

Is not the heat of body lessened
in old age? -

we observe the body cold
when under the powerful
stimuli of Measura &
why? — want of excrement? —

Why when the blood
is flowing does the feet
become warm —

If there not often a parti-
al coldness in some parts of body
and why —

How shall we account for
the Spontaneous combustion of
human bodies —

Does it not occur most
in drunkards, & most frequent
in old people & does it not
occur sometimes the extremities
only —

Does not the same effect
take place in motion sensa-
tion & thought? —

Why does not the heat of
the body depend to heat of air

we observe the body and
when under the microscope
structure of the substance &
why? - want of adjustment -
body when the blood
is flowing through the feet
becomes brown -
off there not after a hour
as a chief is made of body
and why? -
the whole in account for
the structure consists of
human body -
does it not occur most
in children? a part of
in the body & does it not
even more than the structure
right and for the
does not the same effect
take place in other organs
as in the stomach?
body does not the head of
the body opens & head of

120 or 130 degrees -

What effect of bleeding
on purging & on heat of
body from the sun? -

Why do the Africans anoint
their bodies in very hot
weather? -

What instances of persons
cooling hands by blowing
up on them? -

What of profuse discharge
from lungs in Sugar house?

What are uses of ani-
mal heat -

Are not for fluidity
Sensibility to nerves
Vibrability to muscles
to promote solution
of food in the Stomach? -

130 a 180 degrees -
What effect of heat
of burning of a heat of
body from the sun?

Why is the operation and
the bodies in very hot
water -
What is the operation of
cooling body of body
of a body?

What is the operation of
from body in light rays?

What are the rays of
the heat -
The rays for the body
of the body of the body
of the body of the body
of the body of the body
of the body of the body

What says Dr B of the
operation aneurism render-
ing the limb warmer after?
Yes

Is not arterial blood
warmer in degree than venous?

But is not body warmer
when obstruction in lungs -
In asphyxia is not body
warmer -

Is not a limb after warm-
er? than p. intervening
it & lungs -

Is not heat of body dimi-
nished in old age yett
is not Respiration the
same -

Does not passion of
mind elements &
Drinks increase the heat

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and illegible due to the nature of the bleed-through.

heat of body but do not
increase the respiration -

Aquaria is not heat of the
body but one degree of the
body below that of the lungs -

Do not all bodies contain
portion of heat & does not
friction as & friction elicit
heat? -

Does not compression
of air light punk? -

Do not some bodies elicit
heat with less force than others -

Do not some bodies take
fire sooner than others?

Does not the same take
place in all matter -

Does not animalized matter
contain heat?

Does not my theory
comprehend the other the-
ories? -

Old Animal heat like

like animal life is the effect of all the Stimuli of the body -

Does it not appear irrational to ^{ad}mit the lungs to give more heat than the single degree of it that it is greater than other pts of the body -

Is Heat greater in birds than man having

Exercise of mind & drinks exercise the of body, friction of an arm of or leg will increase the heat -

Does not bleeding purging & Diet lessen heat?

I, it not because the Stimuli are abstracted -
I, not head unusually warm ~~and~~ in intermit - I, not the body

the animal life in the
effect of the
of the body -
does it not appear as if
as if to come to the body to
give more heat than the
body is capable of it that it
is greater than other things
the body -
a great quantity of heat
then we have seen
persons of whom who
seems to think there can
be of heat, freedom of
sum of a large number
the heat
has not the same way
ing but after that
I. It not seems the
there is no doubt
I have had much of
I have seen a
out of the body

not more heated in fever? -

Does not the heat of body
& motion sensation I thought
exist often in proportional
degree? -

Is not body cold in malign-
ant fever when under the
influence of powerful stimuli -
Here is not the stimulus
too great - Is not the
heat of body increased by
the extraction of the blood? -

Do we not sometimes observe
in malignant fevers a
hot skin without a pulse? -

How shall we account for
the spontaneous combustion of
human body on this principle
- It is on a par with
animal life?

Several persons in hot
baths have been in 210 degrees
four of whom did not

Here commence —

the lungs contain very little sensibility — This is evident from wounds, abscesses, and irritating matter applied to them, producing no pain —

Sweat & not in crease of temperature of body - How acc^t for it - Is it not then that the Vapor from the lungs is increased is fold?

Has not the body its boiling pt as well as water? -

What is Respiration?

Is it voluntary or invol?

For Respiration see Dr Cullens Physiology? -

Does not the lungs next to the liver contain most lymphatics - Supplied with nourishment from Pul artery? -

Have the lungs much sensibility or irritability -

What facts in proof of this? How is trachea's sensibility? -

Does not pt often when inflamed acquire great sen

Sibility? - Is this not instan-
ced in an inflamed tooth w^h
can't bear the contact of
the tongue without pain? -

Is there not often 3. 4 or
5 pulses in one respiration
& Does it not differ in differ-
ent animals - In Amphibi-
vous animals are there not
cases where they breathe only
20 times in an hour? -
What is the immediate
cause of respiration? -

What the uses of respiration?
Are they not to admit air
into lungs as a stimulus &
is not the lungs the Bellows
of life - Is not the creator
preserving goodness, contin-
ually active every minute in
keeping us as we are? -

In Wartschorn injected air into
the femoral artery of a dog,
without doing him any injury.

Does not the air give oxy-
gen to blood & Red colour

What took was Dr Harts
heron's experiment on a Dog
& what the consequence -

Does not Arsenic given
gradually do no harm
which suddenly destroy
life? - Yes, -

Does not Air give sensibility
& irritability to system -

Does not respiration give
moisture to lungs? -

Does not respiration serve
to convey out of body mori-
ous matter as Carbonic acid?

Is air ^{of expiration} lighter or heavier than
common air? -

The Slowness of respiration
gives the azote time to rise
before the next inspiration?

Does not respiration serve
to propel the blood thro the

Laughing consists of several rapid
expirations, and inspirations

It assists, the rectum
Bladder & to discharge their
contents & serves to aid in
Smelling by bringing the
particles into the nose? -

Does it not assist the
infant in sucking & is
not instrumental in the voice -
which sea move the breast
& which the abdomen most
& what Utility? -

Also are they not useful
in coughing sneezing, laugh
ing, crying -

What is coughing & how
performed?

What the use of cough in
Pulmonary Consumption? -

What the utility of sneezing
What is it a symptom of? -

Is it not a favorable sign
in crisis of certain fevers -

What utility of yawning?

In what consists laughter -
When moderate is it conducive
to health -

At what time is it most
beneficial? -

What is hiccough, what
utility -

How is crying performed?
What its utility? -

Is it not to remove the
debility of grief & Depression
of Joy -

Lecture

What are the parts that
are employed in voice? -

What is meant by voice?

What is meant by sound?

Is the organ of voice a
wind or string instrument?

If the lungs of dead animal
filled with air & then
forced out will not a sound

be the same? & can it be
from tension? -

What is the experiment
on a Pig? -

Does not the uvula contri-
bute to voice? -

What of nostrils

Is sound increased by ten-
sion, & by reverberation, &
is not so the voice? -

Is not sound most power-
ful when it passes thro
the various pts in their
greatest state of distention?

Have not Birds a double
glottis, one cartilaginous &
one ligamentous?

Have not an abscess of a
frontal sinus made the
voice dull -

How many vibrations in
a minute of time? 9632 -

The nightingale sings sweetest in
the spring -

Key - D⁵
num

What occasions the acuteness
& grave sound? -

On what depends the
strength or weakness of
sounds?

Is not singing the protraction
of the voice? -

What of the tremors produced
by singing -

What effect has age upon
voice & why? -

How do the Passions
affect the voice? -

Has not the weather an
effect on the voice? -

Is there not a similarity
of voice in the same country
or family? -

What is the cause of what
is called speaking thro the
nose? -

What are Paraphonia &
Aphonia? -

How ^{does} ~~has~~ standing
or sitting effect the voice -
Does not Delirium or fever
effect voice - more melodies -
What effect of full meal
on voice? -

Does not man derive his
superiority over the brute cre-
ation more by ^{Speech} voice than by
reason? -

Is not Speech wholly imi-
tative? - & without it
would not children be obliged
to convey ideas by signs? -
What are the organs of
Speech?

In children do not crying
laughing & crowing thus
succeed each other? -

What is the first word?
that a child pronounces?
Whence the origin of Papa
& mama? -

Is st Language is soft in proper
tion to their abounding in
vowels? — hence, Italian, soft. —

Do not children first utter
substantive nouns? —

Why does a child call
a chariot a tow and sugar
Billy? A. — from association

Are not all savages fond of
music —

Are not all words having
th t h learned with difficulty
ty? —

Language is guttural, lingual
labial & nasal? & dental

Has not indolence an
influence on speech — and do
not indians grant assent? —

Is not there in the Italian
language a plethora of vowels? —

Does not deafness ~~found~~
from cause dumbness? —

The blood is projected from the
left auricle of the heart into the
aorta from whence it is distributed
by smaller arteries to every part
of the system; - it returns by the
different veins of the extremities
into the large vena cava, and thence
passes into the ^{right} auricle of the
heart: - from the ^{right} auricle to the au-
ricle by the ^{right} ventricle, from the
^{right} ventricle to the lungs by the
pulmonary artery: - it is re-
turned by the pulmonary veins
into the left ventricle & from thence

What are the methods that
are used to teach the ^{deaf} to
Speak?

What instances of a trans-
lation of sense of hearing or
C Boerhave -

By what means is
ventriloquism ~~from~~ per-
formed? -

What are the uses of
Speech? -

Lecture

What is the course of
the circulation -

Whence is it carried &
for what purposes? -

Is the arterial & ventri-
cles synchronous? -

What are the lymphat-
ics and for what purposes?

What the facts that
prove the circulation? -

into the left arch from
Hence it renews the circuit

$$\begin{array}{r} 60 \text{ minute} \\ 60 \\ \hline 3600 \end{array}$$

$$\begin{array}{r} 120 \text{ minute} \\ 60 \\ \hline 7200 \end{array}$$

What is the position of
the heart -

For what purpose the peri-
cardium?

Is the heart muscular?

Is it not the reddest muscle
in body -

How many strokes does
it beat in an hour -

Does not move the
brain & is it not moved
by the brain -

Is it proportioned to the
size of the animal? -

Has the Polypus any
heart? -

Does the heart possess
great Stimulability -

In a dying person, how
does Stimuli affect it -

Is not its cavity more
invitable than external
surface -

How is the sensibility of the heart? - A. not great

Is the heart more or less irritable in young or old hearts? -

How many coats has the arteries - A. 3

Have the arteries muscular fibres? - yes

Have not the arteries vasa vasorum & lymphatics - yes

Has it any elasticity? where is the elastic & where the muscular force power of the heart? -

Does not contraction form pulse of heart & irritation of the arteries? -

Do not the arteries become strong as they proceed from the heart? -

Does ossification begin in
the internal & external
part of the arteries —

What is an anastomosis? —

Is not the capacity of the
arteries increased in propor-
tion to distance from the
heart?

Are not veins less thick
than the arteries —

Have they any pulsation —

Are they more or less nume-
rous than arteries? —

Are they more or less super-
ficial than arteries? —

Are they not possessed of
valves, & in what parts
most abundant? —

Do they not contain more
blood than arteries in
proportion to 5 to 4? —

What are the powers that
move the blood —

7
The first of these is the
fact that the majority of the
population are in the
state of ignorance and
superstition. The second
is the fact that the
majority of the population
are in the state of
ignorance and superstition.
The third is the fact that
the majority of the
population are in the
state of ignorance and
superstition. The fourth
is the fact that the
majority of the population
are in the state of
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The fifth is the fact that
the majority of the
population are in the
state of ignorance and
superstition. The sixth
is the fact that the
majority of the population
are in the state of
ignorance and superstition.
The seventh is the fact
that the majority of the
population are in the
state of ignorance and
superstition. The eighth
is the fact that the
majority of the population
are in the state of
ignorance and superstition.
The ninth is the fact
that the majority of the
population are in the
state of ignorance and
superstition. The tenth
is the fact that the
majority of the population
are in the state of
ignorance and superstition.

7
Say what qualities does
the blood stimulate —

Are there not Specific
stimuli, as air on lungs
blood on heart —

Does not the heart receive
a large portion of its irrita-
bility from an influx from
the brain? —

• Should any weight be
placed on experiments on the
~~the~~ heart out of the body? —

Has not the palpitations of
heart raised the bed clothes
so as to be observable? —

What are the resistances
to the action of heart?

Is it not the elasticity
of arteries, column of
blood, friction of blood
the resistance of atmosphere? —
the muscular contractility? —

Is there not cases where

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

where the heart beat but
go ~~the~~ & the radial arte-
ry too? —

Why do we infer the irri-
tability in the arteries —

When we set cross legged?
Does not fast more? —

Do we not find the arteries
of dead persons empty them-
selves into veins? —

Does not the Blood stop
suddenly on a divided artery? —

Does not Waller, tho deny-
ing, involuntarily admit
the existence of muscular
power in the arteries?

Are not the arteries & veins
the centinals of the System &
do they ever repose as the
muscles &c do? —

Lecture

Why do we infer the power of arteries to assist the circulation of blood, in addition to the vis a tergo of heart?

Why do we infer the motion of blood in the veins

Has not veins irritability which favors the opinion of motion of blood in them?

Does not Dr Haller bear unwilling testimony to the irritability of veins -

What is the purpose of the circulation

For irritability, nourishment - vigor to brain,
6^{thly} a nervous matter

by friction of blood against
sides of the blood vessels? -

Whence derived the term
Arteries -

Who discovered the cir-
culation? -

What was the fatal
history of Dr Harvey? -

Is there not motion
without sensation & vice
versa?

Is there not thought
without ostensible motion? -

Must not Physiology
be almost silent on the
functions of the brain -

May not the uses of the
diff. parts of brain as
corpora striata, Pineal gland? ^{be done after dis. covered} -

May we not say here
"Dies docet"? -

by further of blood a great
- of the blood vessels -
like a stream the
arteries from the
heart to the various
parts of the body
and back again to the
heart by the veins -
the blood is carried
to the various parts
of the body by the
arteries and the
veins - the arteries
carry the blood from
the heart to the
various parts of the
body and the veins
carry the blood from
the various parts of
the body to the heart -
the blood is carried
to the various parts
of the body by the
arteries and the
veins - the arteries
carry the blood from
the heart to the
various parts of the
body and the veins
carry the blood from
the various parts of
the body to the heart -

By what means is the
brain defended?

Are there not great
variety in forms of skulls
of diff^t people & nations -

What is Mr Gall's opinion
of the influence of mind on
Brain & Brain on Skull -

What is the Dura mater? -

What are the peculiarity
of arteries of brain? -

What portion of blood of the
body is conveyed to the
Brain? -

Is not the blood in Brain
from heart the cause of
its motion? -

Are there any valves
in veins in brain -

Are there any lymphatics -

Are not all nerves of body
^{originally} derived from the brain?

May not we rather say

When we consider the functions of nerves, that they originate from the extremities -

What takes place respecting size of brain in old people?

Has the cerebrum much sensibility, so little that a red ~~hot~~ hot iron has not produced sensation?

Has not the human brain been found larger in proportion to size than in any other animals -

Has not the ox a brain but one fourth of size of brain that man -

Is there not exceptions to this, has not the brain of canary bird been found to be equal in size to that of man -

Is not all sensation in the
brain? -

Is not brain the seat of
the mind -

Where does Des cartes
place the mind? -

Where does Haller think
mind?

And where does Hartly
suppose mind to reside? -

What does Dr Gall think
of seat of the Brain? -

What does Dr R think of
the seat of mind in the
Brain?

May not seat of diff^t
faculties be often translated
from one side part of the
brain to the other parts &
to the body?

Does it not convert sen-
sation into conception &
thou into thoughts

By what means are
thoughts discharged from
the mind? -

What is the structure of
nerves, their utility &c? -

How many kinds of matter
have nerves -

Are not nerves uniform
in size direction & number
in every one, but is this
case with regard to arteries
& veins? -

Why the smallness of
nerves in the Brain? -

Whence the covering of the
nerves? -

What are the ganglia? -

What use does Dr Johnson
ascribe to the ganglia -

What does Dr Hartley ascri-
be them to? -

What proportion in body
between quantity of nerves

of degrees of sensibility —

Does the proportion hold good in the stomach vessels?

Has not voluntary organs more nerves than involuntary? —

Do not the viscera when inflamed suffer less pain than the external parts of parts of the body? —

Is there not a difference between sensual & common sensibility? Is this not instance in tongue which suffers little pain when cut tho remarkable in sense of taste —

Is it not probable that nerves of motion & sensation are diff^t & what fact leads to this supposition? —

Is not motion in nerves absolutely necessary to

Sensation -

which class of animals
have sensibility next to
man & the - Are they not
birds - have not fishes
next & lastly worms? -
Can secretion go on without
nerves -

What thinks Dr R of
vibration? -

Do all parts of the body
possess sensibility? -

What is Hallers opinion
on this subject - What is
Dr Rushes opinion? -

What effect has habit on
sensibility? -

Has not Spanish flies
& mustard by habit, destroyed
sensibility? -

How are ligaments tendons
& bones, ~~re~~ with respect to
sensibility when inflamed? -

Is not uterus very sensibility at time of menstruation & less at other times? -

What manner does the same impression produce greatest pain? -

Is it not when applied suddenly? -

Are there any sensations unaccompanied with pleasure & pain? I believe not -

What distinction do I draw between ~~the same~~

terms of agreeable pleasing & pleasurable? -

Are impressions always accompanied with sensation? - Are they not instances in some pulses, pulsation of heart, air in lungs -

Is not water very low
left at time of harvest
after 3 days at other times?
What answer does the
same question produce
present form?
Is it not water applied
in different -
the three days mentioned
unaccompanied with the
same of rain? I believe not -
but the water of the
same between the
periods of application
is plentiful?
The same is the case by

the confusion of things
the confusion with time
the 3 - the 3 days at other times
in some places, but not in
others, and in some

What would have been
the consequence if all impres-
sions had produced sensation?

Do impressions always pro-
duce sensation in same part
& what instances?

Is there any natural con-
nection between the sensation
& the body exciting it? -

What are the causes of sensa-
tion -

Lecture

- 1 force
- 2 force given duration
- 3 only one sensation on mind
at once - Examples, hair, dog
& Nervosities -

Could not Julius Caesar
dictate to 6 persons at a time?
Was not this owing to
quick transition of thought
What said Descartes of succession
of ideas, quick, in reading?

What would have been
the consequence of all this
if the world had been
the same as it is now
but for the existence of
the human mind?
I think very much of
the human mind, the human
mind is the only thing
that is not of the same
kind as the rest of the
world.

Lecture

1. The human mind
2. The human mind
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99. The human mind
100. The human mind

4. When two or more sensation occurs at same time what is the effect?

Do not they partake of all?

In this not instanced in Colours +

3. Does not certain sensation continue when cause removed?

Amputated limb

Stick with fire

Is not

6. Sensation is increased by stimuli applied? +

Sensation is it not diminished by great stim +

7. Is not a ^{strong} feeble sensation that is, painful removed by less powerful pleasuring one. but is necessary that first should have been long continued -

9 Is not sensation destroyed
by habit -

Of Habit

Is not repetition of sensa-
tion under different circum-
stances become pleasurable
or painful -

Acquire a virtue if you
have it it not, that mon-
ster custom

we can master even the
Devil -

3 certain sensation by
habit become pleasant -

the first of the year
the first of the year
the first of the year

the first of the year
the first of the year

the first of the year

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the first of the year

4 certain sensation entirely
destroyed by habit? —

Have property of changing
medicines? —

Example of 4 law — miasmi
ta

and certain rep. as tobacco? —

5 certain sensation depends on
the person —

6 Habit increases the acute
rep. by feeling colder

8 Ideas

9 two or more sensations
connected in mind

10 Have ^{any} muscles formed?
Is not muscularity possessed
in every pts body as brain

Lungs *

Can any spasm without muscularity —

Is not spasm the most general form of disease?
to what are muscles attached?
What shape of muscles when in action? +

What is the peculiarity of muscular contraction? +

Is not muscular force in proportion to blood vessels & nerves?

Is there not more strength of muscles than tendon as tendo achilles +

The strength of muscle is not proportioned to weight?
Is not the extensor muscles weaker than flexors? +

Do not hollow muscles peep most irritability?
as in heart & intestines? —

Are not diff! muscles of
the body acted on by diff!
stimuli, thus lungs by
stimuli of air, heart by
Blood —

4061 In the Tarina capus? +

Do not persons become
strong by ceasing to culti-
vate his mind —

Does not the action of the
will increase strength +

Will not a living muscle
bear greater weight than
dead? +

Does not animals possess
the power of restoring parts
injured? -

What are the uses of the
muscles? +

Does the matter or power
that move muscles reside
in them or in the Brain? +

Are not muscles moved

by stimuli after cutting
nerves or separation of the
muscle from the Body? -

Does not Haller believe in the
vicinity of muscles & is
this not erroneous? -

Do not animals possess
life irritability in proportion
to their greater sensibility? -

What is the property owing
to that disposes muscles
to be put in motion? -

What difference between
sensibility & irritability? -

cannot irritability be
destroyed without sensibi-
lity? -

Do they not exist in
diff. proportions, in old
age & child hood, in heart
& other muscles? -

Are there not diseases
of excess of sensibility & of

of irritability? +

Should not a communication
be kept up between heart
& arteries, between muscles
& veins - Is not the integrity
of all system necessary to
healthy action of muscles -

What is influence of habit
on muscles -

Actions become correct only
by habit or experience
as in child -

Is not tone of muscle
increased by repetition?

Are not the Association
of muscles increased by
repetition? -

Also do we not feel the
effect of repetition in mind
~~do we not~~ as in charity?

Does not repetition increase
the strength, celerity of muscles?

Are not the wings of wild
Birds that fly much, the
strongest? -

Do not muscles acquire a
dark colour by long exer-
cise

Does not repetition associate
motion without the sensation
that first produced them?

Does not repetition? -

Do not invol motion be-
come in vol & vice versa
by repetition? -

How has muscular motion
been divided? -

What motions have been
called vital? as that of
Brain, heart blood vessels
lymphatics stomach, bowels
which are the voluntary
& which the nerves?

Does not repetition is common
the strength, variety of numbers?
One out the range of words
find that off words, the
Language -
Do not number again a
dark column by day
Does not repetition of words
create confusion the learner
that first number then?
Does not repetition?
Do not mix words
number will be a verse
by repetition?
When the number is broken
the result?
What result from the
called what? or that of
to be, least about eight
proposition, the old book
which are the order of
What is the number?

What is the origin of the
involuntary motions? —

Lecture

What are the common
voluntary motions? —

What is the proper ~~attitude~~
attitude for walking? —

What is the attitude of
an Indian —

Did not Mr West say
that the handsomest human
figure which he ever saw
was an Indian woman
in this City? —

What is the progress
of a child in use of volun-
tary muscles? —

What is Sympathy
or association of motion like?

Sympathy

In what two great
classes of sympathy?

What is Sym of con-
tinuity

What that of contigui-
ty? -

Where is the cause of sym-
pathy? -

What is Dr Witts opinion
of Sympathy

Is it not correct? -

Is not Sym of conti-
nuity by means of nerves
thro the brain? -

Does not a disease of
one kidney Sympathize with
the other -

Do not the eyes Sympa-
thize without immediate
communication

Recipe

non

in vers

recep. Brain & Stomach
& Kidneys & Stomach is an
instance of nonrecep.

Cepation of cough by the
increase of perspiration is
an instance of reverse sympa-
thy

rising in throat, -
Fact of Dr. John Hunter

Stone. Glands penis

What do I mean by error
sensus & error motus? -

What may be the cause
of sympathy between the
heart & uterus? -

back, across the road
at the top of the road is an
evidence of the road

evidence of the road by the
evidence of the road is an
evidence of the road is an

evidence of the road is an
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evidence of the road is an

evidence of the road is an
evidence of the road is an

Do not sympathies appear
to pass most rapidly thro
nervous system, then skin
bowels, lymphatics in this
order? -

What means does the poison
of viper kill instantly -

What is meant by

Sympathy of contiguity.
Is it not instanced in noise
affecting teeth - Colic induced

~~Does~~ any liver complaint
& vice versa by sympathy
of contiguity? -

What are those sympathies
which are on one side of the
body only? -

to not expect this paper
to be great. I expect the
new laws for the
house, the people in the
house -
What we mean then to have
of paper the content
What is meant by
propriety of company
I believe there is some
of the best - the only
one who can be called
a true and perfect
of the people - the
house on the paper
the new course of the
house of the people
the new course of the
house of the people

Brain, with
with Stomach, liver
Spleen - feet, muscles
with all passions of mind -
Stomach, head senses,
tongue, jaws, lungs liver
uterus, tongue skin whole
body & mind

Intestines, with Stomach
feet.

Liver, with Stomach,
Bowels, lungs, shoulder
limbs, Diaphragm, rectum.

Lungs, with skin, gene-
tals, -

Diaphragm, brain, Stom-
ach, muscles face & nose.

Eyes, head & Stomach
genitals, with glands
of throat, organs of
Speech

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

The rectum, with

Teeth, with head Stomach
lungs & nervous sys

Blad with palms of
hands & soles of feet -
urethra testicles mes-
des & blood vessels -

Sympathies of ideosyncrasy -
as Chorea

Acquired Sympathy of
ears and Bladder

Thou between body & mind,
as love, laughter, gapping -
See Book intitled a theory
of agreeable sensations 2

Are there not sympathies
which are not in health -
Are not healthy sym

suspended by disease?

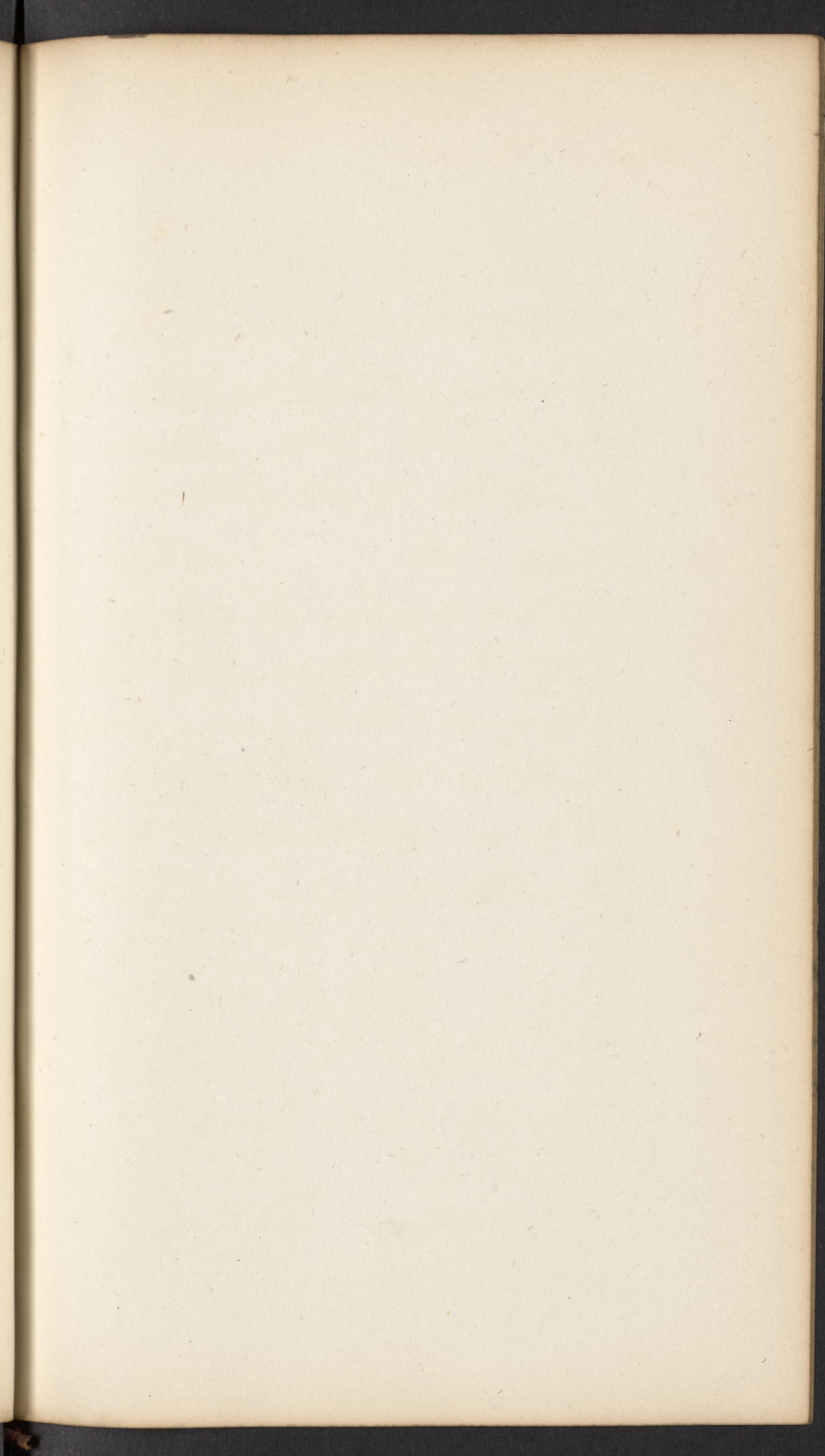
Are not sympathies often
different in different predis-
positions to disease—

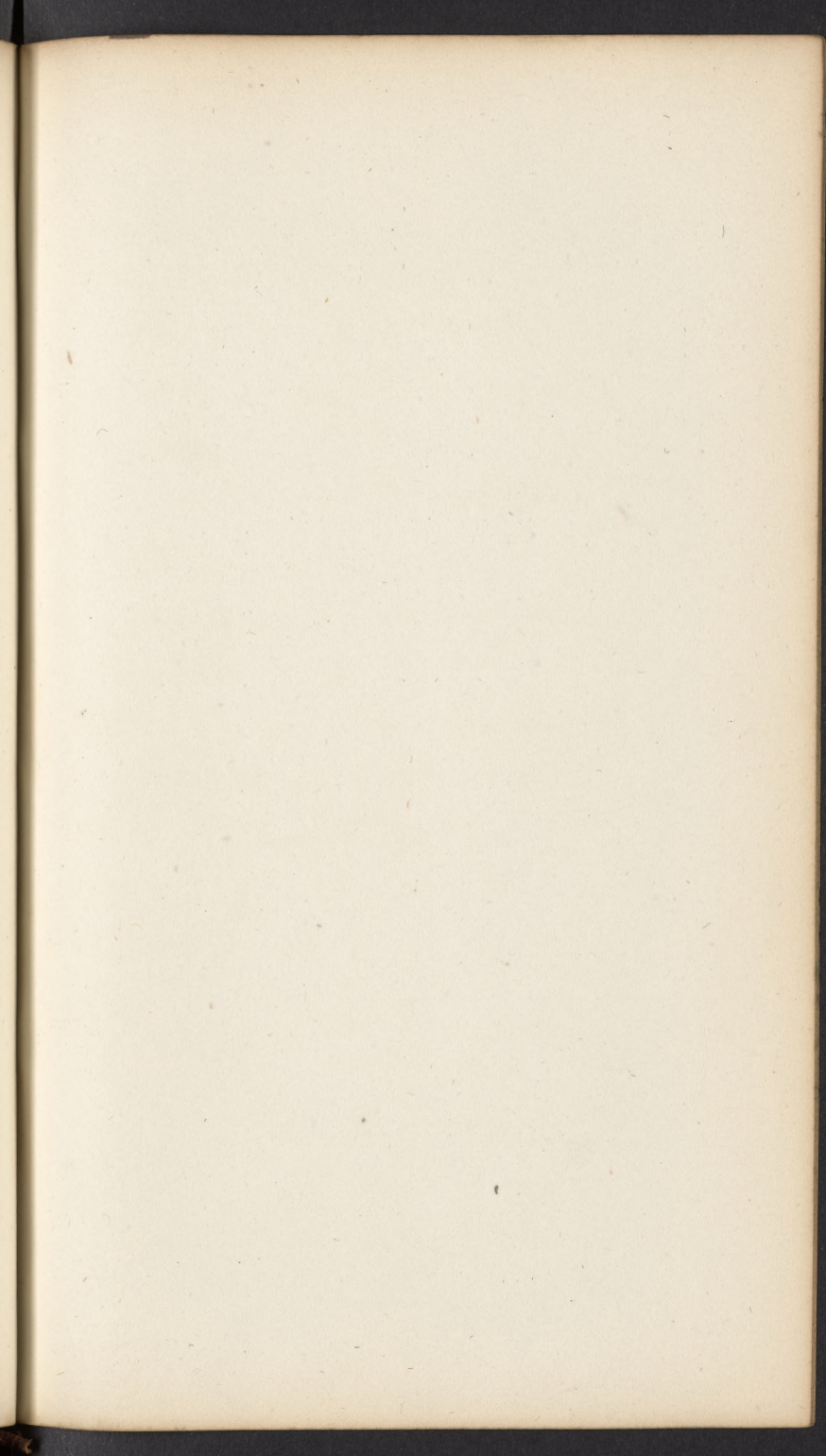
Is not sympathy between
mind & body greater in
women than men—

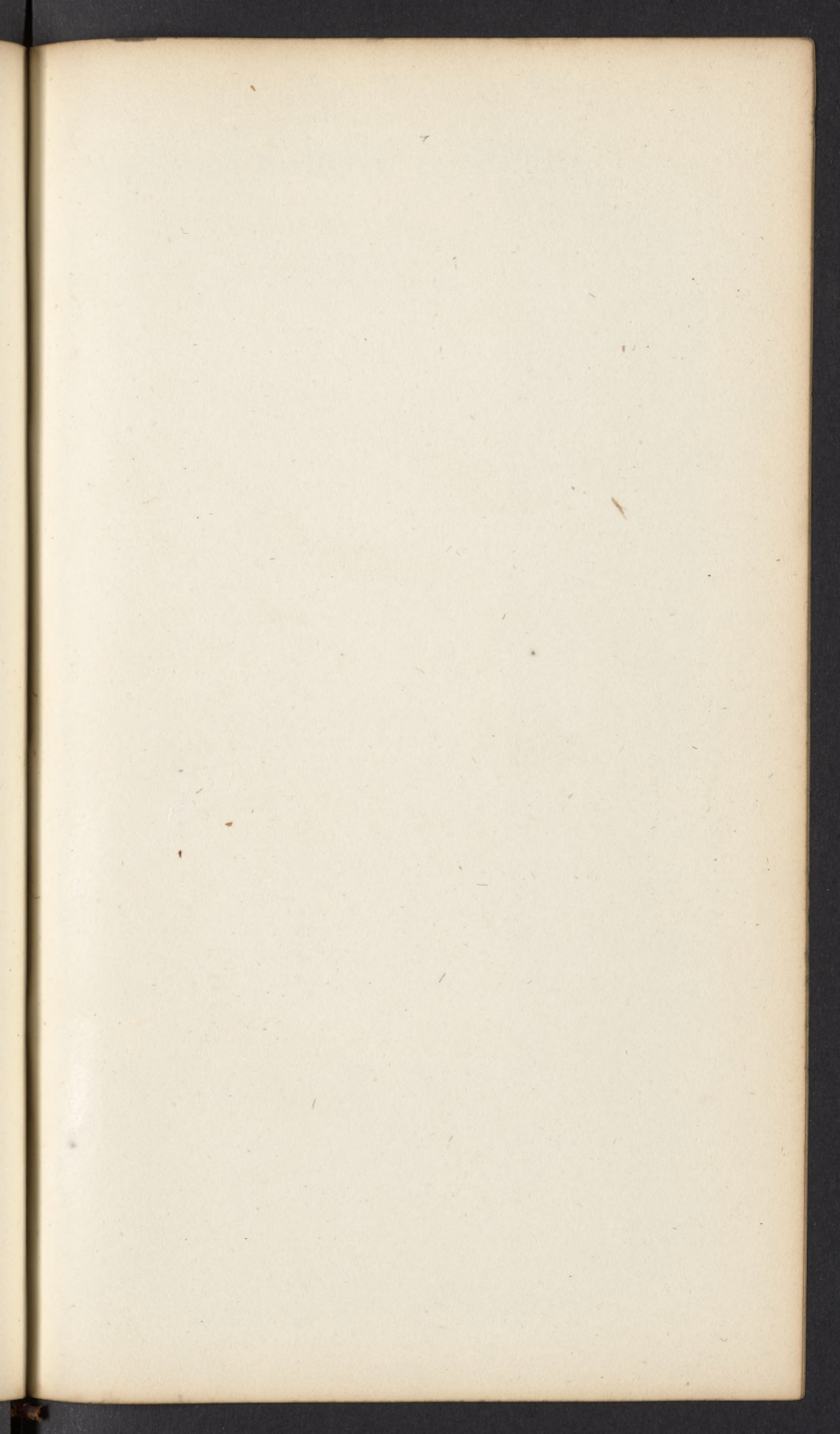
Do they not differ in
different seasons, as
obstructed perspiration in
winter affects lungs, in
summer, the bowels—

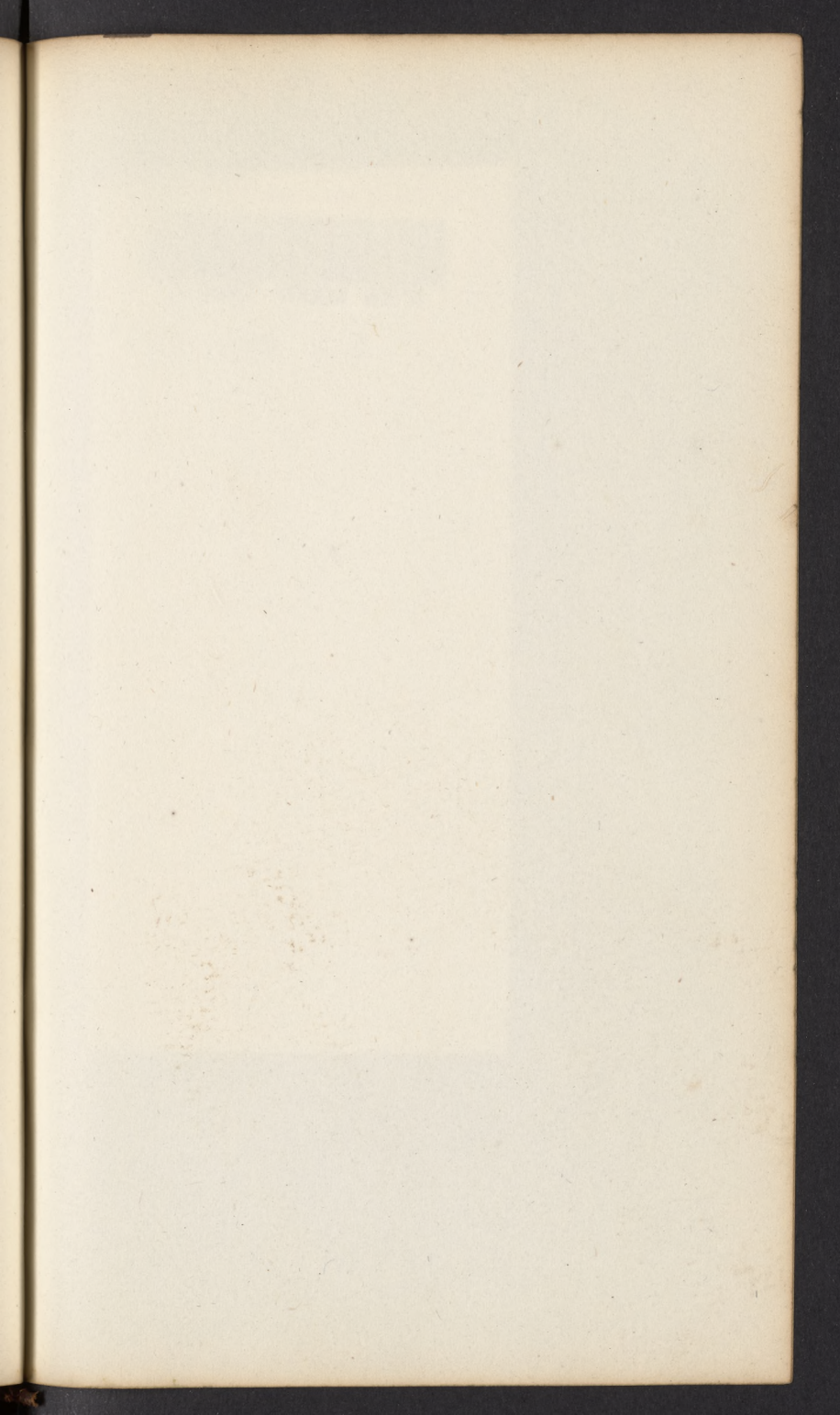
What are the advantages
of a knowledge of the
various sympathies?—

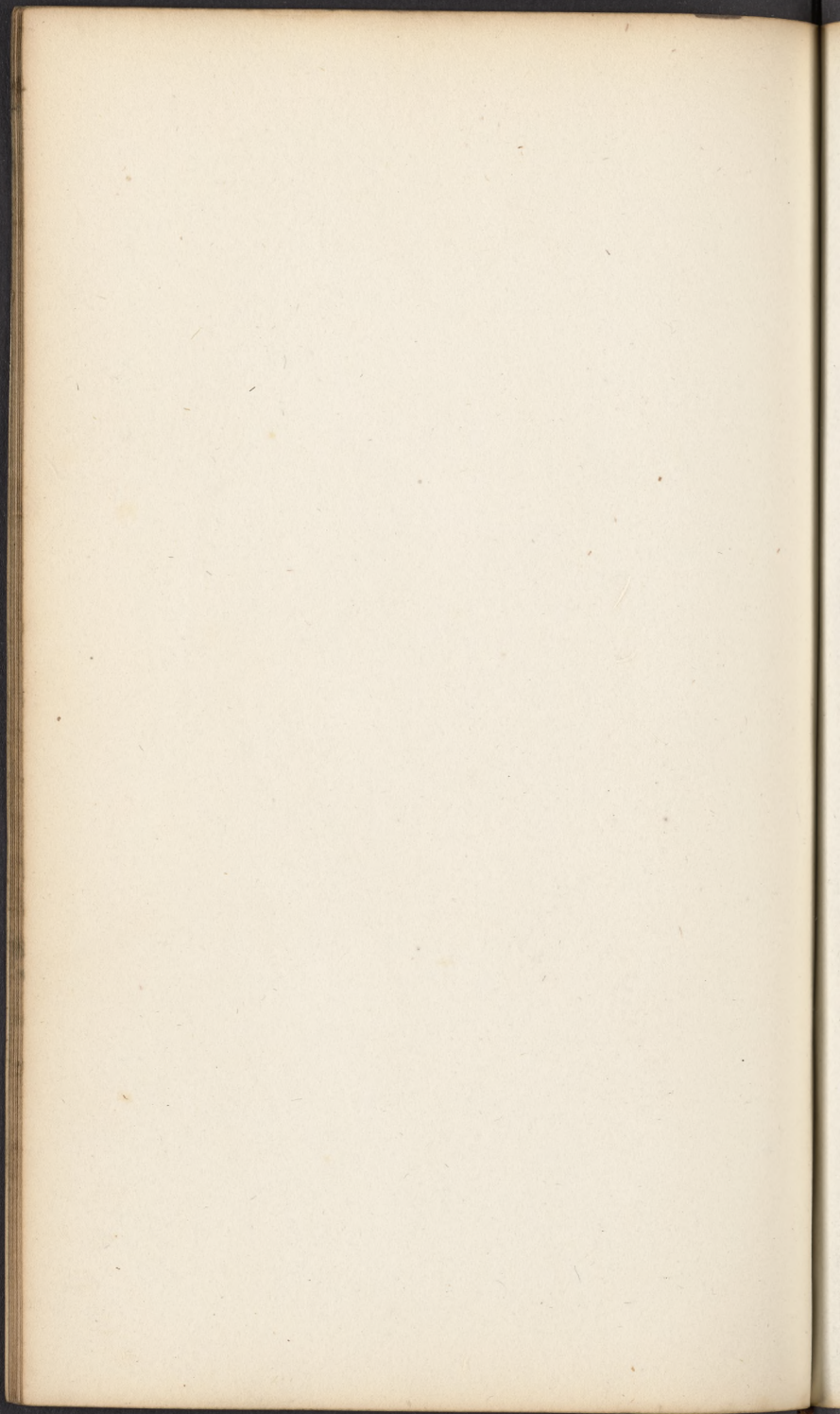
invented by science?
Are not the objects of
effort in different kinds
of action to science?
Is not the object of action
aiming at doing good in
human nature?
Is this not effort in
different in human, as
abstracted from action in
action effort itself, in
human, the human?
What are the advantages
of a knowledge of the
science of action?

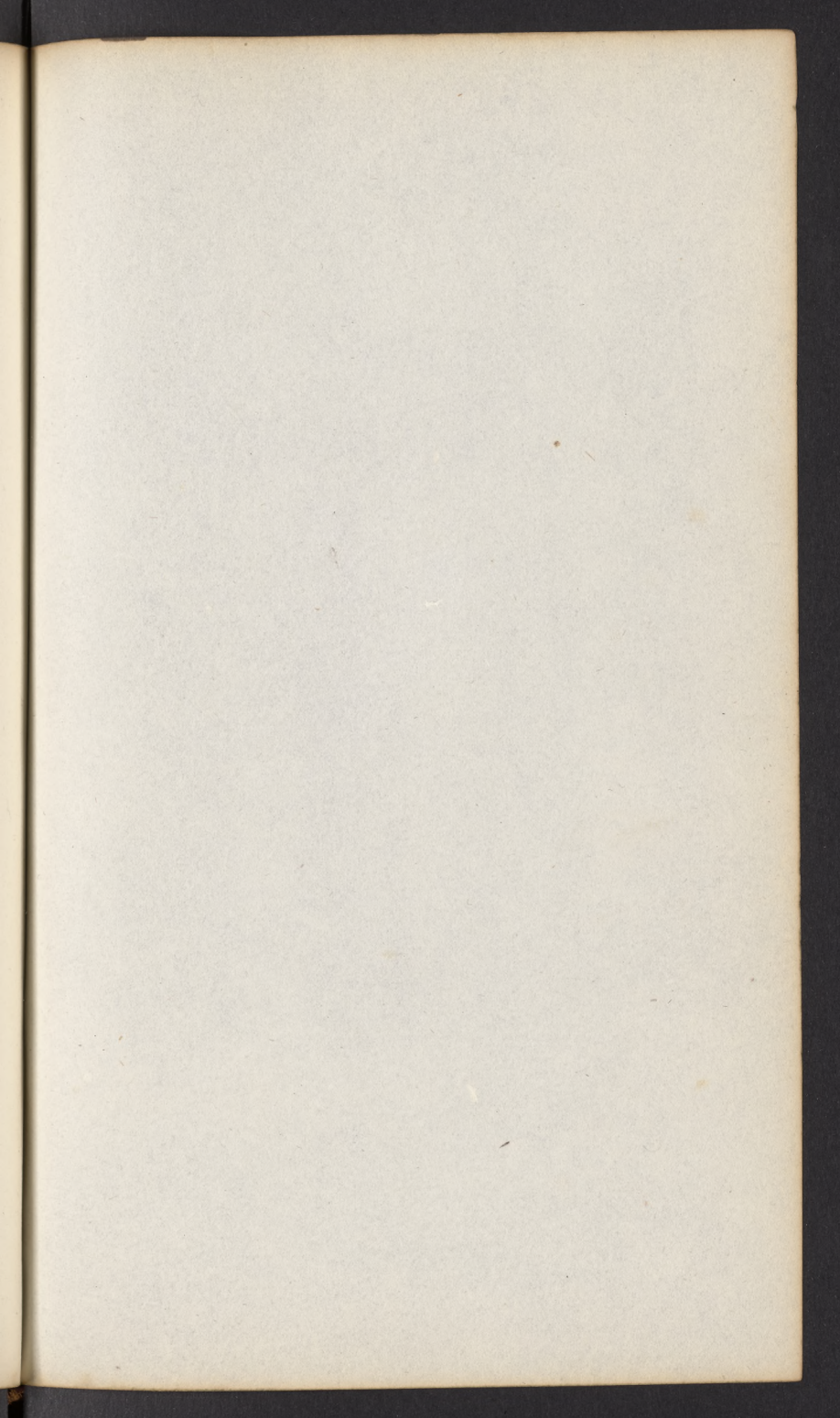


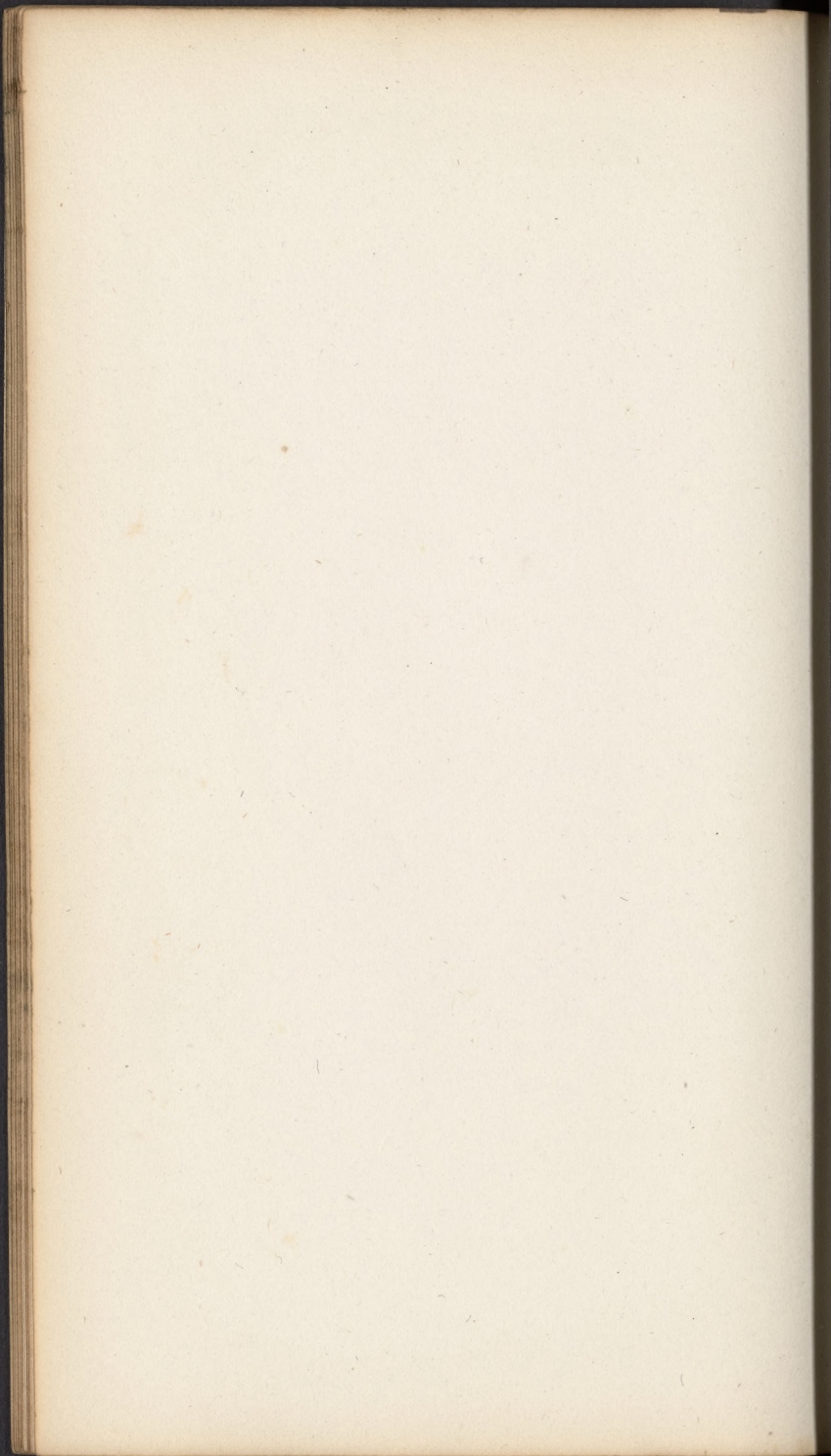


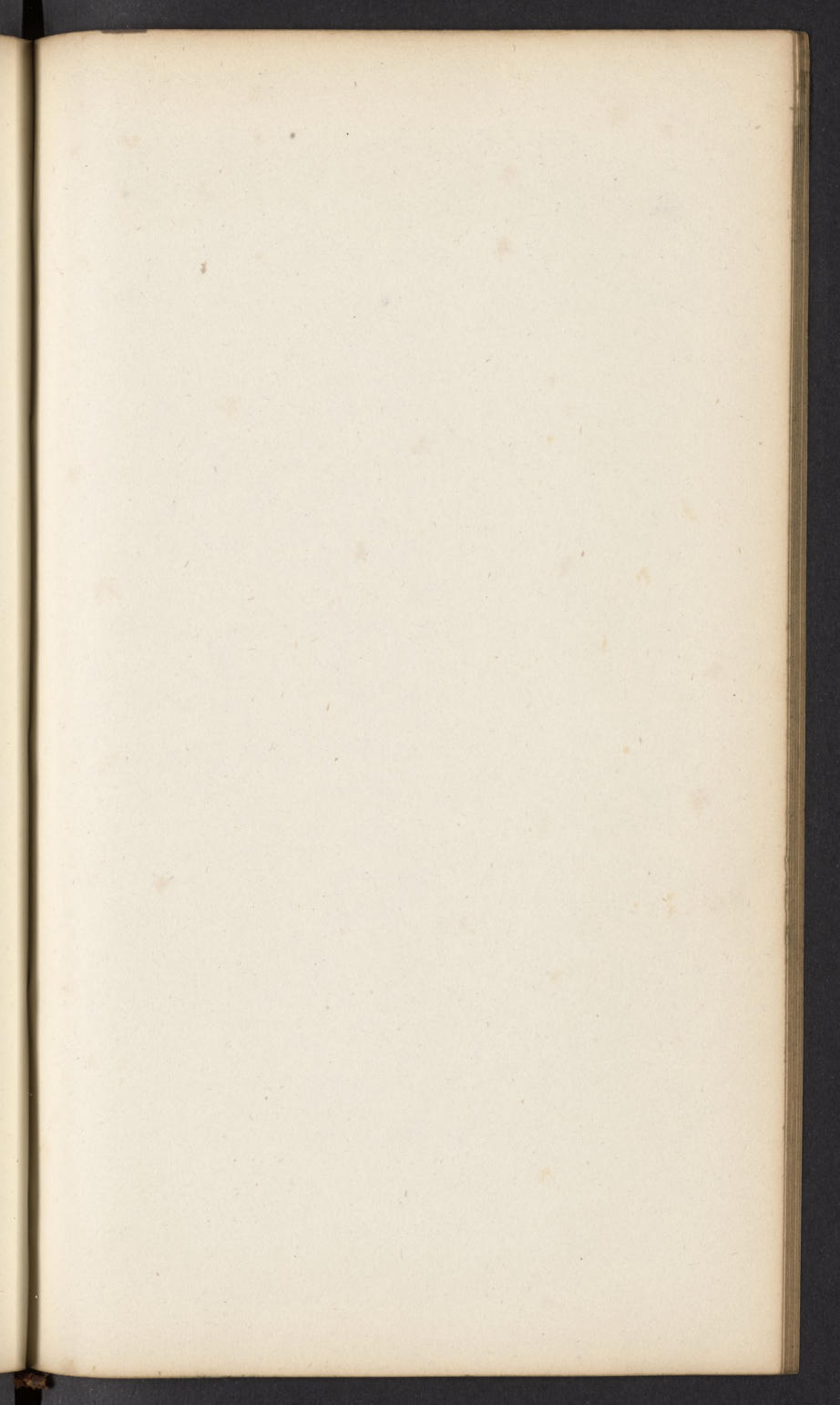


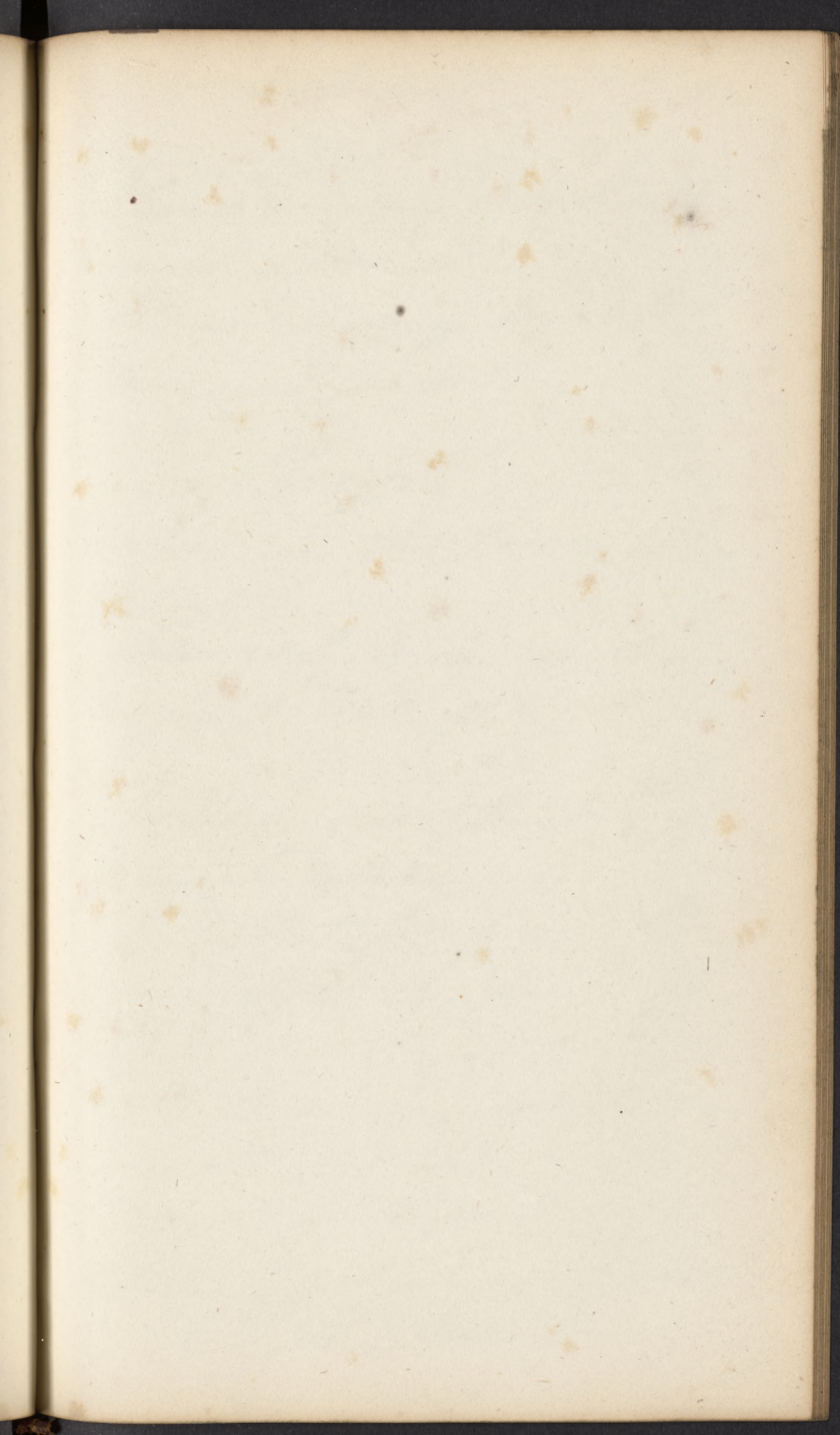












—Lectures—

How many strokes
in this disease?
How many does Dr.
Barrow work?

Tongue

What is the sense of
tongue?
What do we see dis-
tinguish from the rest?

Where does the sense
of touch reside?
In what part of the
brain of touch is most ac-
tivated?

What is immediately
beneath the bulb?

How is it separated from
the bulb? What is it called?
Where the brain is

Lecture

How many & what
are the Senses?

How many Does Dr
Darwin work -

Touch

What is the Sense of
touch?

~~What~~ What do we dis-
tinguish ^{by} sense of touch?

Where does the Sense
of touch reside -

In what part is the
Sense of touch most ac-
cute? -

What is immediately
beneath Cuticle?

How is it separated from
Cuticle & what is it called -
where the true Skin

What is its nature?
Is it capable of dilata-
tion & muscular contrac-
tion -

What glands are in
it?

What are the Sebaceous
Glands? -

What is the effect of
hair powder?

Where the Structure of
hair & its bed of growth?

What the utility of hair? -

Is ~~cutis~~ cuticle infixed
or not to the external
pts of body -

How may the Sympathy
between Skin & Stomach
be accounted for? -

Under what circumstances
(respecting bloodvessels) is
the Skin most sensible? -

Is the sense of touch
affected by fasting? —

Is not the breast of fe-
males & genitals of both
sexes in consequence of
gr^d number of nerves &
is not lips very sensible
on same account? —

What gives the ends of
fingers their acute sensiti-
vity? —

What the utility of nails?
How should brain & blood
be to facilitate sense of
touch & what temperature
of body & what the degree
of thickness of skin? —

Does not the soles of feet
often become insensible
to common sensation by
habit? —

What deprivation increas-
es the sense of touch? —

To what to render the
of touch more acute, how
should brain be respecting
other senses -

Does not fingers put
in hot water or by friction
become more acute? -

~~Where~~ when is the sense
of touch first awakened?

Do the other senses
open till after Delivery?
Is not touch superior
to other senses? Is it
most faithful? -

Can a Rose be distinguished
from flame of fire by
touch only?

What was the question
put to ~~doke~~ respecting see-
ing a Ball & a Cube &
what his answer? -

Does not touch give man
a Superiority of over brutes?

Why do we not know
the value of sense of
touch? -

Taste

Where seated?

What does the tongue
abound in? -

How do nerves project
from tongue?

Do not the degree
of projection render sense
more acute -

Which nerve gives the
sense of taste?

Is not the sense of touch
more acute in tongue
even than fingers -

What are objects of
taste? -

How is the taste excited?

How does the liquor of
tongue aid in producing it?

Are there not exceptions
in the metals? —

Is there not some variety
in sense of taste? —

Does it not increase
& lessen?

What circumstances influ-
ence the sense of taste —

Does not weather, & state
of the stomach, by odors
thru the nose, by deple-
tion in body? —

Is not taste influenced
by density of air; How
has the atmosphere of
Tenerif an effect on tongue —
In loss of tongue to what
place is taste transferred
to? —

Wherein the variety of
tastes?

What was the conse-
quence of Bitter & acid

applied to fungus on brain?
May there not be
specific nerves for each
taste? —

Whence mercury exciting
sensation of copper? —

What the utility of sense
of taste? —

Why do Savages derive
most enjoyment from
sense of taste? —

Lecture

Where the Seat of smell
lies? —

Is proportion of this fa-
culty to size of smelling
surface? —

Is the frontal sinus
an assistant in smelling?
Why not?

Whence the ~~sense~~
Innervation of Nose? —

each body seems to act on a
particular nerve, or to produce
a ~~peculiar~~ action in the
nerves of the nose -

are not Hootworts numerous
in the nose? & Why

How do you account for
fetid smells?

Have not some physiologists
observed odours? Yes Linnaeus

Lawsonia alba, Zalluca
rosea, fragrant barometrum

are odorous particles visible to
the microscope?

Is a tectian just formed
by union of the odorous body
& the mucus of nose?

May ~~it~~ ^{not} they rather
be attributed to a different
action of different bodies
on the Surface of smelling?

Must there be a nerve
for every sensation or a pecu-
liar action produced by every
different odor?

What will render the sense
of smelling more acute?
May not there ^{be a few} original odors
out of which by different
combination all others may
be formed?

Will not a single drop of
oil of damask rose give
odor to a pint of oil for
a long time -

Does not union of a

Does not this sense derive assistance
from other senses? Yes?

Is it not of service in selecting
aliments, hence it's importance
to brutes

Is not stimulus often conveyed
to the system by means of the nose?
Yes Garlic affords nourishment
according to Lord Bacon and
ammoniac & other volatiles act
by the olfactory nerves?

of a Skunk perfume a whole
township? and again of
musk perfume a whole room.

Can not many birds smell
carrion for many miles? -

Will not sneezing often
produced by a sudden glare
of light, hence connection
between eye & ear -

Does not also odors often
stimulate lachrymal glands
to tears? -

Does not Lord Bacon
relate a case of one who
lived 3 days for 4 or 5
days on smell of garlic
& onions? -

Do not odors affect the
stomach, the mind, the
imagination, morals -

Does not Dog & Hare possess
the sense of smelling in a
high degree? -

What the state of smelling in ~~civil~~
Savage life? Chakians can
trace their cornels to a vast distance
by smell

odours are a great stimulus to
life, & are insensibly excited
from many substances & like
sounds; are not cognisable by
the nose -

are there not original odours?

Does not smell affect us in the
deconomy of diseases?

Do not narcotics emit a peculiar
smell?

Has not the Deer possess a
very acute Sense of Smelling?

Have not the Water Dog
& fish but little smell? -

Cannot the Brambling tell the
breath of those living on ani-
mal food? -

Is there not a Can where
a man had the Sense of
Smelling in his Stomach? -

Is not a feble Smell resem-
bling in feble degree the urine
of a cat serviceable to the
smell of mozel urine? -

Seeing

Why two eyes?

Does any animal possess
an odd number of eyes? -

Is it not in highest degree in
birds then in man, reptiles
then fish? -

Whence the utility of eye

what is the use of the urea?

Do not excreta of these produce
~~urea~~ urea?

44
brow & eye lash? -

How many coats has the eyes? -

In what can is cellular membrane of palpebra by ~~thickening & small pores~~? -
swelled? -

What gives motion to eyes?
What preserves softness of Eyes? -

What are the 6 coats?

Has the cornea blood vessels?
Has any nerves been discovered in cornea? -

What are the humors of the Eye & how many? -

What are the component parts of light

R. O. Y. G. B. I. V.

What takes place respecting light in Black & white bodies - & in other colours? -

Lecture

What tendencies has
too much or too little light
on the eye -

In what diseases is
the eye generally dilated?

A In Crani diseases
particularly consumption?

What effect has ^{derrange} ~~cornea~~
on the colour of eye? -

In what position do
objects appear on retina? -

What says Dr K about
seeing objects doubled &c?

Does not vision owe much
to sense of touch? -

Can we distinguish by
sight size motion &c? -
without touch? -

Why does black objects
give pain? -

Does not colour size pupil

what is the colour of the eye in
northern nations?

what in the south?

why?

do not many diseases show
themselves in the face?

indicate disease? —

Does not the motion & position of the eye indicate the activity of the mind? —

Why does black object give a languid eye? —

What cautions are necessary to preserve the eye? —

What respecting the action of Eye muscles? —

How should the light be received on object? —

What degree of light? —

What effect of reading in the open air? —

And reading one kind of print? —

What respecting the pressure of eye? —

Should not Spectacles be early used? When eye begins to decay? —

Should we read before day by candle light? —

Hearing

What is meant by sound?

How may sound be divided?

Is there any other vehicle of noise beside the air -

Is not the earth also and what instance in fact for proof of it? -

What difference of sound in different degrees density of air? -

How does damp & rainy weather affect sound?

What the difference of sound in a furnished or an unfurnished room? -

In what angle is sound reflected? -

How is organ of hearing divided? 3 parts -

What the utility of external ear? -

How may the external ear
be assisted to favor hearing?

Have there not been cases
of persons perceiving the power
of moving ear by the muscles?

Is not the direction of the
concave ^{surface} of the external ear
accommodated in different
animals so as best to suit
their convenience? —

What is the structure of the
internal ear? —

What sounds are said to be
conveyed by fenestra ovalis
& what by fenestra rotunda?
—

Is air necessary in the
tympanum? —

What is the art of a ven-
triloquist?

How is hearing indebted
to the Eyes? —

Why is hearing more affected
when one ear is only affected?

How many the entrance
is owing to your leaving?
How then will we
proceed keeping the house
of mourning on by the windows?
I want the direction of the
counsel of the entrance
to be more like a different
arrangement in a book to put
these conversations?
What is the structure of the
entrance?
What things are you to be
convinced of from the soul?
I submit by generalization
that?
Is one necessary in the
performance?
What is the end of a
chapter?
How is leaving in order
to the end?
What is leaving more of the
with me in a different?

Lecture

Is not hearing when breath
ing is suspended. Mouth
opened? —

Why does open mouth
assist in hearing? —

Did not a lady one learn
a tune by accidentally leaning
with her teeth in her sister's
harp reed? —

Does not Dr. Haller relate
a case of one who had
for deaf to man who knew
a sound of a drum by its
producing a pain in his
belly? —

What case of a curious
Lady who had a translation
of her senses? —

Could she not taste colour
& see

Lecture

A case of lady who could hear sounds whilst a drum was beating near her? —

How does ~~the~~ habit of great noise affect hearing? —

What of people near falls of Niagara? —

What is error of senses? —

What is instance of this in our hospital? A patient always hearing chirping of a bird —

How did Tiberius Gracius regulate the loudness of his voice? —

Do not young people love melody? Older people, hear none? —

Do not ~~test~~ action of senses afford great portion of life? —

What condition would ~~we~~ we be reduced to? —

Lectures

I can only say that I have
been very much interested in
your lecture on the
value of the human
affection? —
I think of people's
pills of happiness? —
What is our business?
our business is a constant
change, change, change of
a kind. —
I have no business
I am interested in the
of the world? —
I do not want to be
belonging to the world, but
in my own
I do not want to be
afford great pleasure?
I do not want to be
in the world? —

" nihil est in intellectu quod
non prius est in sensu,"

It In what succession
do the senses awake? —

Is not a deficiency of in-
tellect the consequence of
dear loss of one of the senses? —

Mind

The mind of every man
constitutes his identity? —

Is not the history of faculties
of human mind the most
certain of all our knowledge? —

Are the bones of the head more
capable of demonstration than
the faculties & operations? —

Is not a knowledge of the
mind of benefit to every
one & essentially so to a
Physician? —

what are the various
opinions of mind & matter?

Is there any necessary con-
nection between immateriali-
ty & immortality of matter? -

Has Spirit any more self
existence than matter -

May not the almighty im-
part as well thought to
matter as to Spirit? -

Does not the sound sleep
consist in total suspension of
thought? -

Will the laps of ages be
any more than a single
moment during the total
suspension of actions of
mind? -

Faculties or
Capacities of mind -

are then not torpid at
Birth -

How are the faculties of
the mind divided? —

Is not the mind a Unit?
What are the opinions of
Dr. Gall? —

Does not Gall say that
observation is seated in the
forehead & love in Occiput?

Is not memory agreeable
to him in front part of cerebrum?

Does he not say that sense
of Deity in the upper part
of os frontis? —

It is not possible that there
may be a foundation for
the opinions of Dr. Gall, but
are they satisfactory or yet? —

Is it not a fact that
the more arched & eleva-
ted the Skull is the more
intelligent — "The half reason-
ing Elephant" is next to

to man in this respect -

In what constitutes
mind is it vibration or
motion?

Might not it be possible
by microscope sufficiently
small might enable us
to discover the thoughts
themselves? -

Should we not recollect
that tympanum is capa-
ble of 5000 distinct
motions? -

Do we not think involun-
tarily? -

What the effect of the
hardness of brain in old
age & its softness in child-
hood? -

What is the distinction
between instinct & under-
standing respect to time of
its development & so -

Are not instincts suspended
& revived? —

What is the first faculty that succeeds & thereby
supplies the place of instinct?
Is it not memory? —

Lecture

- 1 Opinions of mind
- 1 Matter
- 2 in form of a germ
this rejected by Paley +
- 3 that there is no matter
- 4

Memory?

What is the lowest grade
of it is reminiscence? —

When does Shakespeare
fix time of commencement
of memory? —

Note. Cyrus the Persian general had
so great a memory for faces that
he said he knew every soldier in
his army, which consisted of 100 000
men — Iedidiah Fuller had
a most remarkable memory for
numbers: — he could calculate any
sums by aid of this memory —

How is the memory
of the Indians? —

How many memories in
these & what? —

~~Do~~ Are they not suppo-
sed to occupy distinct pla-
ces in brain — hence the
loss of memory on one
subject tho perfect in
it in another —

What instances of curi-
ous memories did Dr R
relate? —

What distinguishes
the Savage from civilized
Philosopher from Scholar
& Man of learning from
man of Knowledge —

Requiescit quisque in sepe-
riore memoria in expec-
tatione judicii? —

of the ...

Q. Are they not rappers

the [illegible] in [illegible]

— 100 —

What is the difference
of memory & ^{imagination} ~~imagination~~
Can there be any con-
nection without mem-
ory? —

Do not imagination
more rapid life regular
in conception more exten-
sive embracing past &
future —

What is the difference
of imagination & fancy?
What are objects of the
both? —

Does not fancy dwell
more chiefly about those
things —

What is imagination
ing — What is imagination
specimen? —

Does not imagination
originate the very building
of local habitation &
of a name? —

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

What is the difference
of memory & ^{imagination} ~~memory~~.

Can there be any imagination without memory? —

Is not imagination.

more rapid less regular
in succession, more extensive embracing past & future —

What is the difference
of imagination & fancy? —

What are objects of
both? —

Does not fancy occupy
herself about Phantasms —

What is understanding
— what is Mr. Locke's
opinion? —

Does not understanding give to every thing
a local habitation &
a name? —

What is the difference
of the two? —
Can there be any
distinction without them?
No? —
Is not the
more rapid of regular
in the same manner
does not make any part
of the
What is the difference
of the two? —
What are the signs of
both? —
Does not the eye see
the chief about the
tongue? —
What is the difference
of the two? —
Does not the eye see
the chief about the
tongue? —

What is memory
~~and~~ & imagination
without understanding?

Is not the first a collec-
tion of rubbish & second
a trash heap -

What is the will &
in what applied -

How many waters
has it -

Is it not in passions &
in understanding? -

"reluctant facult peccatum"

What is the principle
of faith -

Is it a faculty or
an operation -

Does not Dr R think
the first -

Is it not the evidence
of things not seen &
heard a felt & known

only by information?
Is it not from faith
that we believe in the
identity of Parents &
brothers, & sisters? —
Do we not believe necessa-
rily as we see & hear? —
Is faith the result of
experience, ^(no) or is it not
rather a law of our
nature? —

Is knowledge of faith
more or less certain than
senses? —

What of market
man of goose & pig? —
Is not faith suspen-
ded by joy pride &c. &c.?
Is there not cases where
faith is extenuated? —

Passion

Passion Affects & Passions
demonstration —

only by information?
Is it not from faith
that our business is the
economy of power &
business & this is?
Do we not believe in
self on the one hand?
Is faith the result of
experience, a virtuous
rather a law of our
nature?
Is knowledge of faith
is an act of nature that
nature?
What of the object
in our power & this?
Is not faith in
the of our hands & this?
Is there not even when
faith is not?
Is there
Is there
Is there

What have passions for
their object - have they not
good or evil & are they not
set in motion by will?

What is emotions, are
not anger terror & astonish-
ment all emotions -

Are they not effect of
present good or evil &
Passions of future good or
evil -

Are not the faculties
of create the the acts of
them otherwise? -

Is not moral faculty
create - How is moral
faculty divided? Into
moral faculty properly
so called conscience &
sense of duty? -

Has not it been compared
with sense of deity & conscience -

Does not moral faculty
relate to fellow creatures
conscience to ourselves &
sense of Deity to Deity?

Is not conscience always
vigorous & moral faculty
sometimes suspended -

What is meant by the
Sense of Deity? -

Is it not a native prin-
ciple or capacity of the
human mind? -

Does not this faculty
distinguish man from
other animals in the
most conspicuous manner?

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

How out it has been
with the help of the

Is not man as necessarily
a religious as he is a social
being? —

^{of suspension}
Is absence of this faculty
any proof against its
existence? —

What have been ^{the various} objects
of worship? —

Would this faculty ever
have discovered itself
but by the impression of
~~and~~ revelation? —

For can we not more easily
conceive the world to have
existed from eternity than
an inconceivable deity should
have existed from eternity?

I hence must not revela-
tion only give rise belief of

Is not there a deep only
a deepness in his soul

being?
Is there a depth of this world
any proof against it
but that has been
of which it is

known this world is
from this world itself
but by the comparison
of revelation?

For for we are not
in the world to have
nothing from the
in a world that has
from the world?
I have heard but words
the only one who

of Duty? —

What is the consequence &
of what does it take
Cognizance? —

When is the word derived?

Is it not made fault
by act without reflection
Simultaneously? —

When does the sense of
Duty awaken. Some
times never & after at
late period of life? —

Is Parental affection not
in existence altho it
is not brought to action
till birth of child? —

Are there any other
faults. What is truth
& what is intuition? —

What is intuition? —

Does it not act independently of reason or judgment? —

May there not be a number of quiescent faculties in our mind for any not then be discovered? —

What comparison respecting the mind —

What are the

Operations of the Mind —

Perception Association Judgment Reason — & volition

What is Perception? —

Is it not synonymous to conception & apprehension? —

What is it that...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

Don't let it...

What is an idea? -

What are Locke &
Des Cartes opinion of
ideas & what of Berkeley
says -

What Beaufons opinion
of Spirit & matter? -

Does not ^{Hume} ~~Beaufon~~ call
in question the existence
of Body & Spirit? -

How may human
knowledge be divided
into ideas & reflex
simulation & thoughts? -

Are not ideas a mere
quality? -

How shall we account
for power of ~~renewal~~ renewal
of ideas? -

Is it not an association?

What physical cause
is obstacle to the recollec-
tion of impressions in old
age? -

How do thoughts differ
from simple ideas? -

Can ideas so burden the
memory any more than
words can produce a
plethora in the air? -

What is Association

Is it not same as sym-
pathy in other parts
of the Body? -

What do we associate
with the idea of Spring -
of Autumn &c &c

What physical cause
is attributable to the exacer-
bation of consumption in old
age?

There is thought to be
few simple cases of
consumption in old age. The
disease is usually the
result of some other
disease or of a
prolonged illness.

What is Ossification

It is the process by which
soft parts of the body
become hard.

What are the symptoms
of the disease?
of Ossification?

Does not success in education
of youth consist in a
knowledge of the mind? -

Do not Brutes feel the
influence of association? -

What experiment of this
fact? respecting a drum
and assayed ideas? -

~~What is Pleasure~~

What are the Sources
of association? -

Answer, 1 Pleasure, 2 time as
on Christmas, 4th July -

3 Pleasure, as in Speech
with grace of oratory? -

4 Pain as whipping Boys
at Landmarks - Child
birth -

Does not sleep in school
of the count as a
knowledge of the world?
Do not B. & J. feel the
influence of opposition?
What is the movement of the
part? Is it a new
and opposition?
What is the
but it is on the ground
of opposition?
Answer, 1. Yes, 2. Yes, 3. Yes
a Christian, 4. Yes
3. Answer, 4. Yes
with great of water?
4. Yes, in the
at the same time
with

How many associations be
divided? Into natural
unnatural &? —

What the advantage of
writing our thoughts?

~~How~~ what are the
various sources of associ-
ation - as word, ideas, events
Single letters, Earthquake
thunder, fire, sword,
blood, Point no point,
Cane ball & cricket?
What the associations of
habit & profession? —

Has not ~~some~~ Mr
Hume called man a
bundle of habits - (See
Locke Bacon, Gray
Hartley) —

What is

Judgment? —

Does not the mind
act by rapidity I mean

at the very beginning of the
last century the reason
was not the reason
of the present.
What is
(Hartley)
Lodge Butler, Gray
himself of habit (the
Hume called them a
few out from the
habit of profane?
last of the separation of
can tell & cricket
Lodge, Point in front,
for the other four, (Lodge)
single better, both of the
other as well, ideas, want
reversion to former of opinion
Hume what on the
history our thoughts
about the advantage of
Contract 1.

3 In judgment do we
ever exceed the limits of
experience? —

Is not comparison a
Species of Judgment? —

Does not judgment act
necessarily under the im-
pression of argument? —

What is

Reason —

What difference of this
& Judgment — It goes
beyond experience? —
Is it not the highest opera-
tion of the mind? —

Does it not create a beautiful
orderly world from a chaos?
Separating light from Dark-
ness —

Judgment measured by
a rule Reason by eye? —

Is not Reason more extensive

Is judgment of the
ever entered the limits of
experience? —
Is not comparison a
species of judgment?
Does not judgment aid
reasoning, under the in-
fluence of experiments? —

What is
Reason —
What difference of the
judgment — Is your
the same experience? —
Is it not the subject of
the mind?
Does it not create a bridge
and of words from a word
representing light from dark
and from measure by
a scale Reason by itself?
Is not Reason an experience

What examples of good Reason? — An cure of yout yellow fever by theodizing? Should not reason be accompanied with correct perception good Judgment & true Associations — May not men be misled of one & not the other? —

What is the difference of Reason & Genius? — What different kinds of Genius. Is it not a different application of it, in words is a genius for words figures for mathematics.

Is intuition a distinct faculty or a higher Grade of genius? — Does it not agree in Generals, Sea Captains &c. Is it anything more than genius improved by habit. Is intuition the

What examples of
Dissension? In case of
Vulgar fear by the
should not be seen
harmful with
the good judgment & true
of our nation. It may not
be a proof of our
but the other?
What is the difference
of Dissension & Dissension?
but of different kinds
Dissension. It is not a diffi-
cult application of it
words in a general way
figures for illustration
of Dissension is a
figure as a higher goal
of Dissension. How it is
a figure in general, but of
tation to it. It may be
more than figures in
by habit. Dissension is

the highest

What is common sense?

Is not common sense
but a quality of common
a vulgar mind? for is
not not a mere accordance
with the prejudices of the
majority of the country
in which we live? —

Reason does not belong
to god? for it requires time
& labour but knowledge
existed from all eternity
in the Divine mind? —

What is ^a perception
~~attention~~
reflection
contemplation

Bacon Newton Lyden
ham & Locke were contem-
plative minds

What is
wit

Is it not a sudden spark

Incongruity: a dissimilarity

of ideas which strike us
by a connection or want
of connection? —

Is not the last of the
highest kind? —

D. Franklin's wit al
ways was wanting reason
but never given
laughter? —

Operations of will?
Is it not apparently
capable of more than one
thing at once —

Does will act freely or
from necessity? —

What is free agency
it is the result of action
of will when stimulated
by motives? —

This is opinion of Hartly
Pres'tly I Mr Edwards? —

Lecture

What is

Consciousness?

How does it differ from
Conscience -

What the objects of
Consciousness? Existence
Place time ^{actions &} personal identity?
Is it not sometimes lost
in hypochondriasm? -

What are the instances of
~~con~~ of these forms of conscious-
ness -

Are not brutes & idiots
devoid of consciousness of
laps of time -

How are we in perfect
Sleep? -

What the order of
Evolution of mind? -

What are the first signs of
mind in shells - anger terror
& fear - then reasoning?

about 3 year memory? +
^{then} Moral sense of duty? +
Sent Association
from 5 to 10th year
Understanding -
Imagination 12 or 14
year -

Reason marks the middle
sometimes the advanced
stages of life -

Taste at adult life?

In what succession should
the child be led on
^{geography} Botany travels -

'was not natural history
for the first thing that Adam
was taught in Paradise? -

In 10 & 14 let modern
languages when ear &
memory become perfect
when Reason develops at
15 years then the sciences -
when imagination is

awakened then let the
objects of imagination as
poetry & composition sit
be taught -

How do faculties decline
Memory ^{falls 1" for} names, words
~~into~~ places faces & lastly
for ideas? -

Imagination next &
then understanding
moral faculty & sense of
deity? - a woman having
forgot every thing but her
Gods at old age -

Old people who read week
to week maintain their faculties
longer because constantly
employed? -

What comparison of the
mind & lower limbs? -

Does not truth lay near
the surface of a well? says
Horn took? -

Comparative view
of Human mind, with
those of Brute Creation?
Are not gregarious animal?
Social animal? —

Is man alone Anticipating
animal? No —

Is man only prospective
in his knowledge is this not
owing to monuments & books,
Old horn most legacious —
also learned Pig knows most?
Is not quantity & extent
of mind in proportion to the
degree of sensation —

Have brutes not all the
Senses but that of touch?

Is not senses less in degree
than in brutes —

Is not brain in man the
largest? —

Brutes have no speech
Hence a source of defect of

mind? —

Does not a button maker
become a button a soulder a pen
an apothecary a gally put
when each confine is mind
to their objects wholly? —

Have not brutes remembrance
& little memory, little un-
derstanding, no imagination
& much affection? —

Have not brutes a moral
faculty? —

Have not brutes a conscience
indicated in the sense of shame?

Have they Religion no
except one can of Dog who
attended meeting — also a
horn? —

Are not these ^{to} ^{care} rather
the result of
Habit? —

Do not Brutes perceive
associate & combine & cannot
reason? —

Are they not in capable
to abstract ideas? &

Brutes happiness is in
present pleasure & present
pain, man with present
past & future —

Minds (says Hartly truly)
in Brutes differ ~~and~~ from
man ~~not~~ in degree &
not in kind —

'Is not man "capax rationis
nisi non rationalis?"

Why if Brutes ~~not~~ have
not immortality is it
not because it does not
please God & is with
their mortality? —

Why do we live for ever
because it has pleased
God to form us so? —

On this part of the world
to exhibit them?
Dante's happiness is
present pleasure of present
from them with present
but of future -
Dante's (says Dante) happy
Dante's offer of
to an ~~other~~ degree of
not a thing -
to not have a copy of them
not in the future?
Dante's offer of the same
not in the future?
not become a thing of
Dante's offer of the same
them in the future?
Dante's offer of the same
Dante's offer of the same
Dante's offer of the same
Dante's offer of the same

Lecture

Pleasure of
Senses - Tauch -

Does not pleasure a ~~met~~ ~~met~~?

What the proximate cause
of pleasure of touch -

What the final cause of
pleasure?

Is objects of pleasure produ-
ced pleasure ~~imitation~~ -

What the various pleasures
of Senses -

How many points of
contact?

Have we not pleasure from
temperature of air Is this
not by contact as well as
intellectual?

What of pleasure of oxygen
& Nitrous oxide in Senses? -

Does not Nitrous oxide rend-
er system languid? -

Is there not pleasure in
warm bath? —

Does not warm bath assist
much Dr Franklen down
the hill of life —

I not exercise, as Sweeney
walking, chase —

What is the cause of the
pleasure of taste? —

Did not Mr Blanchard
find very great pleasure
in sailing in the air; was
not his pulse quickened?

Do not certain medicines
give pleasure taken internally
as opium, Cinnamon
Essential Spirits & tobacco? —

I not relief after extreme
pain great source of pleasure?

Does not a flapping from
mistress before going to bed
to her act powerfully as
on a sail? —

Is not soft substances
to skin a source of pleasure
feather bed for idleness?

Is not coming head for
lice a source of great pleasure?

Are there not pleasures of
idleness - trying up the
arm for bleeding -

Is not heat & cold accor-
ding to circumstances,
pleasurable?

Is not darkness & silence
often pleasurable -

Also the intermediate
state between waking &
sleeping - Scratching -

Is there not a bodily pleasure
in act of dying? -

Did not adrian speak of
the Bliss of Dying -

Dr W Hunter I wish I had?

General Butler said like falling

asleep?

Pleasures of Taste

What the advantage of this pleasure?

Are they not relations & varied by hunger & habit. Is not Tobacco great pleasure by habit when applied to the tongue?

What effect of condiments in taste?

Pleasure of Smelling?

What are the sources of this pleasure - Rose, Sweet Briar, Sweet scented Shrub?

Pleasures of odors increased by mixture -

What comparison between diff: B. Dors & Music? -

Pleasure of seeing
When the sources of this
pleasure -

Sight Moon height, Eclipse
of her, distance, colour
Blue in sky & green on the
earth - Plumage of Birds -
Certain figure - Hogarth says
it exists in curved line
What the next animal to
man in beauty -

Pleasure of motions - as
nodding forests, waving
corn and troubled river -
Graceful motions in a dance
children when very young
are perfectly graceful? -

Are there not pleasures of
magnitude height &
combination with colour
Clouds tinged with gold
& stormy sea -

It is a beautiful
place, and the
scenery is
very fine. The
water is very
clear, and the
air is very
fresh. The
people are very
kind, and the
food is very
good. The
climate is very
pleasant, and
the scenery is
very fine. The
water is very
clear, and the
air is very
fresh. The
people are very
kind, and the
food is very
good. The
climate is very
pleasant, and
the scenery is
very fine.

Pleasure of Hearing -

Sweet voice of mother to
child - Human voice -

Do not public speaker charm
as much by voice as by
eloquence? -

Different voices are as
follows. One toned voice

Bell Lisp

Velvet toned voice you
was being too had this last
in the highest degree -

5 voice of child hood? -

Pleasure of voice of feathers
tube - also lowing cattle
bleating sheep, bellow
murmur of breeze, dropping
of water rippling of a stream -

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

Lecture

Was it intended that good
or evil should predominate
in our world?

What ~~change~~ Difference
would have been in the
order of nature had it
been so ordered?

Does not eye possess the greatest
Capacity not only for greatest
but most durable pleasure?

Is not the pleasure of one
sense increased by loss of other?

Is not Motion essential to
pleasure, this in nerves -

Pleasure consists in certain
limited definite degrees of
impression & a certain regu-
lar order of them -

What cause of pain -

1 distention 2 contraction. 3

Mechanical or Chymical Stings

Lecture
The first of the three
is the most important
and the most difficult
to understand. It is the
most important because it
is the most difficult to
understand. It is the most
important because it is the
most difficult to understand.
The second of the three
is the most important
and the most difficult
to understand. It is the
most important because it
is the most difficult to
understand. It is the most
important because it is the
most difficult to understand.
The third of the three
is the most important
and the most difficult
to understand. It is the
most important because it
is the most difficult to
understand. It is the most
important because it is the
most difficult to understand.

"Pleasure turns almost to
anguish when the transport
is too sweet?"

"
Moderate dose of opium
or wine give pleasure, except
in either give pain —

certain degree of relaxation
in with pain less of it give
pleasure —

Certain mechanical rough
substances give pain, mode-
rate & smooth substances
give pleasure —

Pleasure in taste & odors —

Except of light give pain, less
give pleasure —

the morning light & light of
moon & blue of sky & green
of earth all give pleasure
by moderate degree —

Mr Burke says proximate
cause of pleasure is relaxation
only — This erroneous —

In weak moderate excitement
constitutes pleasure & excess or
discrepancy constitutes pain -

"The same nerves are fast-
ened to sustain the highest
pleasure & greatest pain."

Negroes in West Indies
under the whip of merciless overseer
suddenly burst out in
fit of laughter -

The reason why women have
been

Pleasure decreases from
duration - this exemplified
in old age -

Most of the pleasure in early
life is increased by repetition -

No two pains of unequal
force can exist in mind at
same time - Slight of friend
or lover removes pain of tooth
ache or of joint -

Anger counteracts bodily pain -

What the final cause of
pleasure & pain —

Pleasure loses their alloy —
ill health removes the capa-
city of many pleasures —

Pleasures of sensation are of
a limited nature — mind
is never satisfied by them —

Old age diminishes pleasure —

Pleasure of Memory

We by means of this faculty
we command the sun that
has gone down to rise again
we look back to various
past pleasures — by it we
know our children & selves —

Refer to Rogers treatise on
this Subject —

We cannot recollect past
pain, the recollection of
past-pain gives pleasure —

Pleasure of Imagination

It carries backward & forward —

By it we ride in Balloons
& build castles in the
air itself —

Pleasures of Understanding
the most delicate &
sublime nature — In the
pursuit of sciences, I do ever
ray of truth, ~~with those who~~
which greater & pleasure
Mr Pottenbroun grieved
at seeing transit of Venus
over the sun —

"The man is happy
nature to explore the fable
"is happy that he knows
no more —

Pleasures of taste, ex em
bran. colour, size, order,
sublimity & — also in
composition —

Pleasures of will consists
in contemplation, necessity &
free agency — The happiness

of the Saint of Philosopher
would equally have be
miserable if it were possi
ble for them to comprehend
the mysteries of religion, rebella
tion &c.

Grand principle in human
mind is exemplified in
child & his rattle —

Pleasure of liberty —

Man buying slave sold in
Jury & gave him his liber
ty & the poor man gained —

Ambition has its plea
sure — hope accumulates
all pleasure — & love
creates a little heaven
upon earth —

Domestic affections, give
great source of pleasure —

Child's first words was
when looking at moon
going under clouds all

all gone--

Dr. Priestly says, 'tis not
true our savior never
smiled for he must have
smiled when he saw the
little children brought to
him for his blessing--

A Lady cured of madness
by birth & suckling of
her child--

What shall I say of
the pleasure of the moral
faculty-- It would
regain a pen plucked
fresh from angher being
to do the subject justice--

The pleasure of all other
passions are natural, as
ambition lust, revenge--

Man enjoys the pleasures
of base passions in common
with his ~~brother~~ brethren
the tenants of lower Region--

The Pleasure of sounding
guillotine to a person &
of a criminal in seeing
the pains of certain brutes
that he created by poisons
as Dips lats —

Pleasure of conversation
where knowledge with
humor — — The Cry of vic-
tory after a battle —

This Pleasure has cured the
Scurvy & Ship fever —

Union of pleasures as that
of Dancing & Love —

Pleasure of Association of
Ideas —

Sight of his inspired
African Slave (in N I) with
the most exultant delight —
by being the ideas of his
Native Country —

Pleasure of Conscience

& of what derived from
minds of other people —

Lecture

Recapitulation of
function of liver -
The design of Liver

also to convert part of every
part of body & particularly
Mentum into blood -
What does Sytic bile
& Hepatic bile -

Size of liver & quantity
of bile 24 Oz in 24 hours
5/6 into gall Bladder -
Bile is found in blood after
passing thro lungs - &
but not completed into
blood, Infer it also from
qual of venous blood -

The Blood of man in
dilectis less putrefied
than person in health -

Hepatic bile is sweet -

The structure & of pancreas
as another circumstance in
its favor —

9^{thly} from intemperance
it increases its labor &
its size

10 Blood in certain cases
of hepatitis — Whiteness of
fluid pt of blood —

11 & lastly from Division into
glands of supply & waste —

Use of Gall Bladder

It is to serve an analogous
purpose that Spleen does
to the arterial system —
tis the return to the liver —
Bile is less putrescent than
blood, but bitter of apple
with water will act as an
a ~~cor~~ antiseptic —

Bile the excrementitious
Nature it gives tone

It acts as antecaptor of
the matter in the liver. In
this lies a par with
anorexia & retards of Pile -
while Stomach most busy
the liver most idle & vice
versa - Gall Bladder is
full of Bile in persons
dying of hunger - When lying
down the bile regurgitates
into Stomach, hence puking
bile in morning, frequent
suspended secretion in glands
of body in like manner in
liver -

I think fetor of Stools
arises from hepatic dis-
charges - first symptom of
having made an impression
on the disease is bilious
Stools -

I think calculus is always
from the Pile, as gall stones -

children with hardness
of belly w^h removed by
purg^e to function - may
it not be by a choking of
liver & redundant quanti-
ty of Bile -

Diabetes I think is
a diseased State of liver -
There is an absence of feter
in stools in diabetes melli-
tis - Dr. Haller once found
lump fat in vena, porta
hepatis -

Importance of liver -
Sympathy between Stomach
& liver I let us suspect
disclaim occasion each
other - Liver often affects
Stomach than Stomach the
liver -

Diabetis of liver -
The celiac flux should be
called diabetis of bowels

look at the ~~lym~~ tary of liver
Mercury acts powerfully
in liver —

Glisters nourish the body
without entering the Stomach

What use of Omentum
(See my soon dissertation)

Lecture

Stagnation of feces in bow-
els ~~of~~ in colon of old people
Halitus from blood drawn
from veins —

Coagulating Lymph, has
power of coag he unclear to

Let it be the first day of June
The many are brought

as this is a day of
a great amount of work
with the many at the school

Let it be the day of
(the many are brought)

Let it be the day of
Lecture

Let it be the day of
the many are brought

Let it be the day of
the many are brought

Let it be the day of
the many are brought

Let it be the day of
the many are brought

Let it be the day of
the many are brought

to itself

Blood same of all
animals & one and will
be nourished by supply from
another -

Coag. Lymph. common
in all and ^{Sweetest.} Lym. pale in infants -
It coagulates in when stay
water in body & so when
exposed to - It coagulates
when arm tied up -

the smaller the stream
easier coagulates, the finer
of vessel, it coagulates on
a narrow bowl soonest, in
warm room it coagulates
slowest - also affected by
the substance of the vessel -

When action of vessels violent
it coagulates more feebly -

In highest grade of action
blood is dissolved & refuses
to coagulate -

this from reading Stearns
Blood to pieces - Blood
drawn from artery was
discolored than from a vein -
Lymph water has removed
half of blood, now it acted
by by stimuli - Poison of
Copper dissolves blood, & carb
acid gas -

Blood taken from a man
in walking & running favor
this opinion -

Vitre acts by reducing (weaken)
the action of blood vessels -

The ~~left~~ ^{left} ventricle more action
of blood the left it coagulates
from having more of ~~oxygen~~

In gel green blood discol
ored & hem patches -

Fibrem has motion contraction
& dilatation - ~~Blood~~ ^{poison}

3 diff. ⁺ forms in arterial
action - 1

thin fibrin is converted into
membrane, this is often inflam
fever - I found but one
instance of membrane in any
pt. body in malignant fever -

Puffy blood in pregnancy &
Preg is a disease - inflam fever
fever of Preg is caused fibrin -

Human body is conceived in
disease made up of disease
& brought forth in disease -

Puffy Blood putrefies ³ sooner
than other this by experi
ments of Mr Hunter -

Disease often is caused irri
tability as well as sensibili
ty by inflammation -

The whole mass of fibrin is
of homogeneous matter, the
same in every pt of body -

Poison of viper destroys
fibrin of blood all over
body by sympathy of conti
nents -

their father in command
remember this a few after
years - I found but no
one to remember or any
it took - a long time
difficult to - perhaps any
I was a child - often
few of my own family
then on body is covered
this one and of the ear
I brought forth in the ear
difficult to - perhaps
or the other this of me
parts of the body
which is well as to be
it is often in the
the whole body of the
of the organs in the
there is every part of
parts of the body
few of the body
body of the body of the

membrane produced by fusion
of blood as in Pleura &
serous tracheales —

Coag lymph is basis of
the nourishment of the
lead

Serum album & gelatin.
Calc to muri Phos
to & lime —

Its use to dissolve all
superfluities & convey
them out body —

Red globules, float in
Serum of blood, larger in
Scale fish & less in man
than in man less than
when dry they are inflamed
3,000 fluid
their colour is owing to oxy-
gen of air — Red particles
yield albumen sal soda
& iron & sometimes Phos
acid — Red glob not the
most essential pt of

[Faint, illegible handwriting]

we see life when hardly
enough to give colour
R Glob give tone to blood
replenish strength to the
whole body - Red particles
of blood in serum vessels &
this error too -

Blood contains some air -
Quantity of blood in
ordinary man supposed
to be 25 lbs

Blood the source from
whence all the secretions in
the body -

Lecture Spleen

4 uses have been given to
it, 1 to supply blood to
assist in when stomach
is distended with food -

To I say to counteract the
effects of great action fore

1 - This I infer from the
Structure, large, dilatible, veins
have great strength, it has
but one artery no excretory
duct. It will hold 3 or 4
lb of blood without being
unnatural - Natural State
contains 1 lb -

2 from Situation, near
heart, & when most capa-
ble of distention - never lesen
d by fat -

3 from effects in com-
mon occurrences of life
Schoel by running cries out
pain in side & called the Spleen -

In great Caughter, persons press
left side when pain & to
releive it - It performs the
office of Baron held by the hand
of Nature to hold blood -

4 from quality of blood
from it, it is less coagu-

lable owing to great action that
forced it there -

3 from nature of disease
in obstruction of spleen -

In 100 person clyster spleen
enlarged & soft & rotten -

In many dying of Dysentery
spleen found in putrid con-
dition - obstructions in

spleen very common in those
who die in chronic fever -

The excitement of blood
vessels by Passions of mind
affects Spleen -

Hippocrates ascribed a bleed-
ing nose to obstruction of the
spleen - other cause -

Few think that connect-
with hem to obstruction of
spleen - It exists in all
animals - Those an? that
have largest spleen are
most subject to Passions -

16
little more & great actor that
faced it there -

I for a time of course
in the history of the
2 100 years chapter often
unhappy & still better -

I have many of the
other found in history
the - the history in

Other very common in the
the history in course of
the movement of the
supplies of the
off the other -

It is not a matter of
ing have to be taken of the
other - the case -

For this the case
with him to be taken of
other - It is not in all

arrived - There is a lot
I am tonight other
most happy to be

16
The few nerves of Spleen &
other pt. of body have
reservoir for redundant
& why not the blood vessels -
When Spleen unduly

distended with blood we
know necessity of blood
vessels - we are led to
suspect obstruction of the
Spleen in all habitual
hem - many diseases in
lungs & stomach & liver are
owing to obstruction to
Spleen - of 38 persons who
died of pure consumption Spleen
was enlarged on half -

Perhaps recovery by liver
it may by its acting on the
Spleen & restoring its health -

Mr Hoone thinks connec-
tion between stomach & the
Spleen - ~~union from~~

Mr Hoone calls stomach

Mr Home thinks spleen
acts to convey off an un-
due quantity of fluid in
stomach

Spleen Gland

is to defend the brain
from morbid effects of all
those causes that determine
the blood to the brain —

2^d from its larger size
in women than men for-
the more delicate & more
mental impression & under-
going pregnancy —

women more subject to
~~Brain~~ Gout than men.
Persons having unusually
enlarged

It is only accompanied
with imbecility of mind —

but accptions to this —
hence I lay less stress on this
point

Thyroid gland
has arteries - to act as a
reservoir & wait gate to
inordinate impressions
on lungs & hence larger
in children who require it
most - they cry & have
catarrh without the
same faculty of spitting
as adults - It continues
more frequently thro life
in women than men &
larger in women than men.

Symphatics

All over body except brain
& empty in thoracic duct -
but some do not empty
there this duct has been
tied up & ypt affut on
tongue &c - a case of spitting

but a little to the
have I lay up life in the
heart

Thy heart is
in order - to act as a
reservoir to store up
in order to supply
a long & true life
in children who begin to
make thy cup of love
constant without the
power of self-sufficiency
as adults - It continues
more frequently the life
in women than in men
larger in women than in

Symphonic
All our days are
lived in the dark
but love is not dark
there this dark has been
torn up & off at the
beginning - a new light

on one side only -

They have coats analogous to blood vessels, having innervation very strong - they are all endowed with valves, - they have all nerves arteries & veins & circulation regularly carried on - & supposed to have mouths, & eat flesh blood & bone & have been seen in fish - Lymphatic glands are composed of convoluted vessels - & they are s^d to have retrograde power. (See Darwin)

It was once supposed to take up from action of arteries - In Dropsy lymph less coag than in health - this view is ascribed to

He supposed poss to be only a secretion of vessels this

on one side only -
They have been sent on
to the mountains, I suppose
in order to keep them
they are all and some
to be seen - they have all
been sent to the
in relation to the
and on the top of the
mountain I see first
I have been seen in
first - I suppose the
are composed of
the rocks - they are
to be seen in the
(in the mountains)
It was on the top of the
I have been sent on
to the mountains, I suppose
in order to keep them
they are all and some
to be seen - they have all
been sent to the
in relation to the
and on the top of the
mountain I see first
I have been seen in
first - I suppose the
are composed of
the rocks - they are
to be seen in the
(in the mountains)

first taught by Dr Morgan -
Flow in lymph circulated
by pressure of arteries by mus-
cles & strain of lymph on
the vessels - In the
head of scal fish they exist -
Swelling of Lym gland
in neck relieving brain &
3 from relief from hydro-
cephalus - 4 from veins
not absorbing lymph -

Lym Absorb solid as well
as fluid, as thyroids gland
soft bones, detection of bony
matter in urine, disappearance
of Schreus tumors &
tubercles seen in every pt
of the body -

Solids constantly under-
going renovation particular-
ly in early life -

Health consists in strife
between Lymph & arteries

first taught by Dr. Hays -
then in book in which
my paper of contents of same
the 2nd of physics &
the rest of the
hand of the first they are
recollections of the
in which the
I have written from the
the 4th of the
not including the
the above is an
in which, as the
the 1st of the
on the 1st of the
one of the
between them is
of the body -
which can only under
very important
in early life -
the 1st of the
between the 1st & 2nd

Systems -

Lymphatics absorb also
moisture from air in &
externally, but of body
greater in moist weather
& thirst relieved by evaporation -

Experiments by

Dr Roux Dr Clap &

Dr Dargyfield -

Dr Clap's experiments

which ^{would} demonstrate that
lungs give extensive sur-
face of absorption & skin
having no power of that
kind -

Experi: Dog, trachea laid
bare, communication between
lungs & mouth of can. &
sp. of temperature -

By the way, the other side of the

is a very fine one, and is of

the same quality, but of a different

color, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

and is of the same quality, and is of the same quality

Lecture

Clap nephew in quickened
respiratory tubes inhaled the
air of turpentine took walk
urine violet ~~smell~~ smell —

Spt. Turpentine not absor-
bed externally but by
the lungs —

The instances of cut ab-
sorp has not been proved
thus Clap's Experiments —

Dr Dangers experiments
took turp on sugar
urine became violet —

Dr Franklin recommended
am. turpentine to counter-
act bad smell of aspara-
gus — 2 Experiment to
Turpentine in close room
& smell violets same —
and also in room & inha-
ling fresh air from bath
cut by tube I put arms

in turpentine but no
smell of violets in urine -
~~not~~ but with the tanding my
arm had been much inflan-
ed by -

No lym have ever been
found terminating on the
skin -

Lymphatics are found
under the skin -

Relief to thirst by bathing
is occasioned by sympathy -
by equalizing excrement -
Dr Currie has proved by
experiments that in
many cases there is
no increase of weight
except when entering
in lungs or counter
acted perspiration -
we cannot inoculate
by application of the
matter of to skin only -

mere effects more the
sooner when in armpits
It hence easier inhaled -
Nothing can be inferred
by effects of tobacco bark
specimen because there
may be accounts for
by Sympathy -

Dr. Meigsays experiments -
do hence to him -

Is it not probable for
this colouring matter to
pass thro pores without
absorption by lymphatics
- but is not same
in gall bladder -

It has been s^d that there
is an aptency for madder
only, but do not enter
all lymphatics absorb
all matter & are omnivorous - I know no
advantage that system
would have gained by

by cutaneous absorption -

The necessity to guard against effects of exhalations on the lungs by suspending respiration or counteracting bad effects by antidotes -

Instead of cuta absorption the cuticle is a coat of mail -

Lymph excited to action

1. ^{by} distention. 2. pressure
cranium absorbed by tumor
on head & large ulcers are
occasioned by pressure of
or incision - 3 friction
as in Dropsy - 4 vomit-
ing - a patient in firming
at edinburgh was cured of
dropsy by 12 grs of tart
emetic instead of a cathar-
tic - a bubo one cured in
J Hunter by sea sickness -

Stimulating passions, certain
food & drink act on the

in the lymphatics (See
my publication of Oesophy)
Lymphatics act as scavengers — milk has been
absorbed from breasts &
enter stomach then making
white calculi —

In suspension of stool
for 3 weeks the lymphatics
have aided in absorbing
the matter —

They serve to keep up
due degree of blood —

Conglobate glands serve
to triturate lymph &

Secretion

Refer to anatomy for
diff^t glands — Structure
of glands vascular, the
liquors very diff^t. water
saliva, wax fat &c &c
all formed from blood —
In what manner is

is the diff! Secretions pro-
duced - not by fermentation
for then they would be all
the same - varicellous matter
in stomach or blood vessels
does not produce small
pox but when to skin
only - The more open the
secretion the more we like

the blood & vice versa -
The same thing takes place
in fermentation - as old
wine differs from grape
more than small beer
from malt -

vicarious Offices,
Arteries secrete bone in
blood vessels, & vagina
secretes blood &c. &c. &c.

Care of lungs secreting
bile - care of milk in
stomach - also lymphatics
give urine from bladder to
stomach.

11 dies does at —

Is secreted by —

By Ruler into milk

semen saliva

urine —

Lecture

Lymph, in ventricles of
brain & anasarca not cap-
table first by Dr Woodhouse
2 by Dr Hunter — —

Saliva

12 Oz secreted in 24 hours —

Dissolution of aliment by
Saliva

Gastric Juice

has Phos acid, stron-
gest in young & old people —
Those who feed for a
while on meat can't digest

"his chest -
the heart again -
of the old man with
faded features
brown -

Letter
thought in our hearts
I am of an age not young
able just by a book
to do the work -

Letter
to the heart in the heart
the heart of the heart
Letter

Letter
the heart of the heart
the heart of the heart
the heart of the heart
the heart of the heart

receptacles I've seen

Mucous

In man esoph & stom
vagina trachea

Sinovia

between bones I principally
in night, from persons
higher in morning than
at night -

Urine

1 Urine of Louis T. - Glute
mus, some & Phos so
same. Po, lime may
be

Gastric juice has failed
in dissolving Stone - Urine
of child most bland &
lup Phos lime owing to
bones requiring Phos lime -
H. Dray sympathize with

very little more than

the same. I have not
yet seen the other

between the two
is right, from the
light in morning the
it right -

the same
I was of the 7th of
the 1st of the 1st of
the 1st of the 1st of

the 1st of the 1st of
the 1st of the 1st of
the 1st of the 1st of
the 1st of the 1st of

Skin in cold weather, but
in summer greasy with
beards - Catarrh in sum-
mer is the worst -

Semen mace
has pungent taste,
semen owing to change in
system rather than vice
versa - It has 90/100 of
water &

Fecundating matter
It becomes thick thin by
oneism -

Signs of Pros-
trate gland, what
use - may it not be
to cover dried matter in
urine -

Teas
in cold as acid, water
soda pure soda Phos-
phoric soda -

There is a great deal of
in the ground, and with
baked - a lot of in the
and in the ground
between the
has a great deal of
between the
up to the water, then in
run - it has a good
water of
The country is
It is a very good thing
between
The
that of the
are in of the
to cover a
between
The
in of the
between the
between the

Milk

comp^d oil mucilage &
water. 1 butter, 2 che
I — It contains sago-
never prescribe when
you wish to deplete sys-
tem — Secretion affected
by passions of men. Chil-
dren convulsed by suck-
ing angry mother —

Tat

where contained — abounds
in intervals of large muscles
breast & orbits eyes —
abounds most at 40-
less — for motion, file
cartilage & body of jaw —
to counteract friction —
give nourishment in absence
of appetite — It is probably
that absorbed in blood
& deposited by liver —

Excretions

Feces Bile & Perspiration —

Feces

derive colour from Bile
I purify as they proceed
discharged by rectum &
accompany stool —

Dr Priestly set fire to
flatus ex animo I like to
have been injured —

Bile

Colour is when healthy
yellow. Peristaltic mo-
tion assisted by system of
Bile - colour & increases
secretions of bile —

Science of medicine people
disorder by indulgence
passions - composed of
albumen, oil, soda
Pho Carb, Phos soda

Dear Sir
I have the pleasure
to receive your letter of the 10th inst.

and in reply to inform you that
the same has been forwarded to
the proper authorities for their
consideration. I am, Sir,
very respectfully,
Your obedient servant,
J. B. [Signature]

Ble
I have the pleasure to inform you
that the same has been forwarded to
the proper authorities for their
consideration. I am, Sir,
very respectfully,
Your obedient servant,
J. B. [Signature]

& lime - Saccharin matter -

Perspiration

How do we know the insensible perspiration -

Is it a secretion or simple discharge from arteries -
Experiments by Car Boer have

What nature of this matter - 1st it is water, Pot & Pos lime & urea - See Dr Clap

er it - It is not an acid or an alkali -
certain odor is peculiar to perspiration & essential to it - Days distinction furnish by it -

Exercise increases the insensible perspiration -
Persor distinguished & marked become from varying by

diff. perspiration -

Brannin

Smell of chunk of green
lard insupportable to a
stranger by inhabitants
eating whale oil -

Sweat & Perspiration from
same vessels & increased
quantity owing to relaxation -

Quantity of Perspiration
affected by diff. circum

stances, season, mode of
life Clermont - Dr Clap
found 40 Oz in 24 hours
in 24 hours -

Dr Clap found perspiration
from lungs to be 6 Oz
in 24 hours -

Perspiration greater after
divided meals than
after 3 meals in a day -
It most copious in in

off. Penetration
Brown
small of clouds of green
and insubstantial to a
degree of insubstantial
being white air -
least of Penetration from
brown vapors. Brown vapors
penetrating many to be late
penetration of Penetration
off. Penetration
Penetration, brown, a cloud of
the clouds - the clouds
found to be - 24 hours
- 24 hours -
the clouds found Penetration
found to be 24
- 24 hours -
Penetration found off
clouds found the
off. 2 hours - 24
off. Penetration

in men than menstrual
flow - greater in lying down
than standing -

Motion & rest & elements
drunk & Passions of the
mind all affect the quan-
tity of perspiration -

Stop of perspiration can't
in down fever with out
previous debility in solids -
It is pale, fetid, yellow
bloody, clammy

Nutrition

is the completion of ani-
malization - various
series of instruments of
carrying it on - & long
nerves - against this the
evolution of chick in egg -
Brain & nerves are not
evolved before the heart
and arteries -

No motion in heart or blood
refuses till after forma-
tion of red blood —

Heart & Brain moved
only from without —
extremities of nerves I
call origin & brain the
termination —

Arteries convey nourish-
ment & not nerves, thus
from on having less brain
than man, I am in gene-
ral have not brain in
proportion to size of body —
again those pts. of body
are equally well nour-
ished when fewest

nerves — and do ground
blood refuses —

all pts. of body sd to be
renovated once in 7 years
but this changed by
circumstances —

to be in fact in the
middle of the afternoon
the 1st of May 1862
about 8 o'clock
and for the first time
the weather was so
warm and the sun
shone so brightly
that we were obliged
to leave the house
and go out for a
walk in the garden
and to sit on the
grass and enjoy the
sun and the fresh
air. The children
were very happy
and played for
hours. The old
lady was also
very comfortable
and enjoyed the
walk very much.
The day was
very pleasant
and we all
enjoyed it very
much. The
children were
very happy
and played
for hours.
The old lady
was also
very
comfortable
and enjoyed
the walk
very much.
The day was
very pleasant
and we all
enjoyed it
very much.

Physical Difference of in Sexes -

of nerves of women more
sensible, brain of first
more mobility - women
perspire less -

Pelvis of W larger -
I can better contain
urine longer -

Thorax more &
abdomen less than men -
Voice softer, longer lived

Intellectual differ-
ence of sexes -

As Diff. in mind as

My dear friend
I have received your letter
of the 10th inst.

and am very glad to hear
that you are well.

I am writing you a few lines
to let you know that I am
still in the same old place.

I am very much interested
in the progress of the
cause.

I have been thinking of you
very much lately, and
wondering how you are getting on.

I am sure you are doing
very well, and I am
glad to hear that you are.

I am writing you a few lines
to let you know that I am
still in the same old place.

I am very much interested
in the progress of the
cause.

I have been thinking of you
very much lately, and
wondering how you are getting on.

I am sure you are doing
very well, and I am
glad to hear that you are.

I am writing you a few lines
to let you know that I am
still in the same old place.

I am very much interested
in the progress of the
cause.

as bodies -

In understanding sup
erior in W

No Milton Bacon & Shakspeare
No Shakspeare, ~~or~~ among
women -

In memory, they are
superior to men for events
& words. Lawyers consider
the taste of women in words
as better than men -

In taste superior to
men -

Their moral faculty
more acute than men.
Sense of Duty greater
& women more devout
than men

Moral faculty, greater
but not so general -
they are kind relations
kind passions, but
no among them a citizen

Conscience in women less
seldom than in men, because
seldom excited to act —
~~this from~~

Want of veracity attaches
less dishonor to female
than male characters —
"The afford most pleasure
in middle life & greatest
support in infancy &
old age —

Less disposed to despair
(at an earth quake)

They despair of the life
of husband or relation sooner —

Perception ^{quick} in women
but few I see less

acute — women under-
stand signs sooner I Mr
Hall mentions this having
been seen in Denmark —
women quick judgments
better than men, but men

Conscience is a witness of
truth in man, and
therefore is not to be
denied.

The first
point of view is that
of the human mind
which is not a mere
the effect of the
a result of the
effort of the mind
to grasp the truth.

The second
point of view is that
of the human mind
which is not a mere
the effect of the
a result of the
effort of the mind
to grasp the truth.

The third
point of view is that
of the human mind
which is not a mere
the effect of the
a result of the
effort of the mind
to grasp the truth.

men more correct when
you give them time to re-
flect -

Women more social -
more communicative of secrets
but not their own
Men vice versa -

Women are more reveren-
tial & hence reverentful
men ought to have petti-
coats -

Women more modesty -
There are original differ-
ences -

We find female minds
& bodies among men &
vice versa - "a shamesless
woman is worst of men" -

I think the natural
differences are wisely ordered -
Natural equality only
takes place in graveyard -

We admire Superiors but
but we never love them
so much as we do those
who are somewhat inferior -

Catarrhenia

In warm climates at 12
in cold at 17 - In middle
stage out of America, 14 -
earlier in high life - I have
known girls in this city to
menstruate at 9 years of
age - In early menstrua-
tion they disappear & re-
turn at 14 -

Women generally ceases to
menstruate at 45 & 50 -

A case of women of this
city who menstruated at
80 - Women who are
~~to become~~ hard drinkers
menstruate at 60 - & can
who menstruate, at 90 -

A case of menstruation at
70 after 40 years interval -
Menses cease sooner in
women labouring in open
air

Quantity 4 Oz time of
cont. 2 to 4 days - Blood no
peculiar or unwholesome
quality - Jews have no
connection till two weeks
after menstruation -

Seldom menstruate dur-
ing pregnancy -

I have never known
abortion from mens-
truation - There are women
who menstruate all time
of nursing suck - (when mens-
truation is time to win)

Women more irritable
whilst menstruating &
more susceptible of disease
& disease more violent -

A copy of the letter of the
17th of the year 1800
has been received in the
office of the Secretary of the
Board of Commissioners of the
Land Office.

The letter of the 17th of the
17th of the year 1800 - which
has been received in the
office of the Secretary of the
Board of Commissioners of the
Land Office - has been
forwarded to the proper
authorities for their
consideration.

The letter of the 17th of the
17th of the year 1800 - which
has been received in the
office of the Secretary of the
Board of Commissioners of the
Land Office - has been
forwarded to the proper
authorities for their
consideration.

The letter of the 17th of the
17th of the year 1800 - which
has been received in the
office of the Secretary of the
Board of Commissioners of the
Land Office - has been
forwarded to the proper
authorities for their
consideration.

Pulse more active in men-
struation - menstruation
is a disease - women call
it their monthly disease -

Fibrin has been dischar-
ged in menstruation -

Causes of menstruation
irregular, periodical
spinal causes -

1 Dr Brown says to the
stim of venereal appetite -

2 Cause a ferment in
uterus, but no change in
blood

3 A disease in uterus, but
Anatomy contradicts this -

4 Plethora to w^h women
a disorder, women perspire
less I have more laxity
of arteries - menses have
been discharged from
eyes, large tips of the
fingers, leg -

certain disease debilita-
ting whole body -

Appetite frequently un-
impaired in this disease -
hence more plethoric -

Ferrile constitutions more
disposed to inflammation dis-
~~ease~~ ^{as} ~~are~~

5 from ^{circumstances} first eruption of
Phenomena occur
Menstruation same as inflammation
fevers -

Plethora of lungs is also
first general & then par-
tial, as in Catarrh -

Menses is hemorrhage from
uterus - Veins of uterus
only no valves - Blood
does not coagulate when
healthy, but coagulates
when diseased -

Why Periodical flow -

Not more - for if so
all women would menstruate
at same time -

center of the circle
top of the roof -
applied for years
reference in the circle
have been before -

British constitution is an
highly to influence of
we have
a form of government
which we can
never have in England
never -

Plato's of laws is also
first general of the law
too, as in the same -

Major is the highest rank
which is given to officers
of the army - the two
show out as the best when
the army is in the field
when the army is -

Mr. Perceval's office -
not more - for 12
at home - would mean that
at home time -

Frivolous -

I, it for nourishment
of fetus? ^{not for} but not in
other ant. except ^{monkey} from
being & is too small
quantity. 3 women
bear child before 1 after
menstruation & also
in habitual obstruction -

uterine vessels may be
distended & blood dischar-
ged w^h may be absorbed?
degree of the affluence to
uterine vessels disposes
to venery by increasing
Sensibility

Women highly libidinous
in beginning of Government.

Women who give suck
seldom become pregnant
after one or two evacuations -

In vergens uterus size of
a pea & after menstruation

reduced in size again —

We never to be sure become
pregnant ^{before} after menses
appear & after they cease
but this not general —

Male monkey feels very
much appetite during the
whole year —

No hermaphro^{dite} among
red blooded animals —

Peculiarities of
Male Constitution —
organs of Generation
(Refer to anatomical chain)

Lecture

Changes at puberty —
bones now large, I speak
breast now vain, beard
eruption of hair, freckles
al deries — then about
14 — Haller relates one

head at 3 years of age —
What causes the chan-
ges in system? — It is the
Stimulus of semen in the
Serrinal vesicles —

A moderate portion of ali-
ment & and anem & been
give strength to system
before then sub can be
absorbed & why semen —

In Preg Stera nausea
mouth enlarged —

--- Mouth ---

Change in Unlocks may be
from abstinence of Stimuli —

In cream of life in castrated
and is owing to the low &
debilitated state & he comes
Strong after w. —

No changes is induced on sys-
tem by absorption of the
semen but kept up by the
semen — —

(For venereal diseases Refer
to Mr. Hunters) —

at 16 or 17 in female &
21 in male is the earliest
period for marriage —

No condition of system in
which venereal diseases are not
felt, —

Even the near approach
of death did not extinguish
this appetite at last will —

Even old age does not always
eradicate — the famous

Par was convicted of adul-
tery at 120 — (one of one at
90 having a child —

The venereal appetite all year
round —

Sensation of glands penis
has been translated to the
root of penis & palms of
hand —

(For out with James & John
to the Hunter)

At 10 AM a parcel of
21 in. and in the
parcel for 20 in.

No number of 10 in. or
which were shown as not
felt

then the man appeared
of about 20 in. but in the
this object at 10 in.

For 20 in. and not
are about the former

For 20 in. number of 20 in.
by 20 in. - 20 in. of 20 in.

For 20 in. and not
the 20 in. object at 20 in.

For 20 in. and not
the 20 in. object at 20 in.

For 20 in. and not
the 20 in. object at 20 in.

For 20 in. and not
the 20 in. object at 20 in.

Cause of Generation —

Support of animalcules from
male rec^d in female —

Animalcules exist in ~~seed~~^{uterus}
& will perish elsewhere —

Spalanganni experiments —
female seed ~~gives~~ life contains
animalcules & male seed gives life —

How is seed brought to the
ovum — is not thro' the fallo-
pian tubes — uterus has been
closed to ^{several} cause of hypos
invalute in pregnancy —

Exp^t of Salanganni. 3 gr of
seed of toad imparted suffi-
cient strength enough to im-
pregnate the female ovum —

The ova is stimulated Speci-
fically — If this theory is
unsatisfactory —

Do you
think it will do, reader —

Course of General History
Lecture 10 - The French Revolution
The French Revolution was a period of
radical social and political change in France
that began in 1789. It was a response to the
corruption and inequality of the old regime.
The revolution led to the execution of King Louis
XVI and the establishment of a republic. It was
a time of great violence and chaos, but it also
led to the creation of a new constitution and
the end of absolute monarchy. The revolution
was a turning point in French history and
had a profound impact on the rest of Europe.
The French Revolution was a period of
great change and upheaval. It was a time
when the people of France rose up against
the old regime and demanded a new
government. The revolution was a response
to the corruption and inequality of the old
regime. It was a time of great violence and
chaos, but it also led to the creation of a
new constitution and the end of absolute
monarchy. The revolution was a turning
point in French history and had a profound
impact on the rest of Europe.

Conception most certain immediately before or after menstruation —

Influence of change of climate has brought back venereal appetite —

Symptoms of pregnant conception —

They said as I have omitted
a third theory — by Dr Hutton
Hutton - viz sympathy —

a Lady & coldness on her
every day in her leg —

Another ~~sympathy~~ cure,
where disposition to stool —

3 Another, where children
become sickly & disinclined
for the breast — The relish
for a particular kind of
appetite food has been a
symptom —

The whole business of concep-
tion is in ovaria & after work
carried
to the uterus—

Conception partakes of many
symptoms of fever—

It enlarges uterus 50 times—

Lochia—

Male seed is formed from
the solid as well as fluids
I not only from the body
but the mind of man—

Why do children resemble
their parents, I believe
they have constantly before
their eyes; but children resem-
ble parents at birth—

Dr. William Shippen, formerly professor of Anatomy and
Surgery in the University of Philadelphia, now deceased - used
to say of Dr. Benj. Franklin, that like an old rickety gun the
often went off without being fully loaded.

Lecture

What gives child birth -
 effects of child throws of
 matter - Pain not necessarily
 attendant on child bearing -
 Great efficacy of blood letting
 in lessening pain of parturi-
 tion - Opium epilepsy & inton-
 cation do not compare in
 retentivity but lessen sen-
 sibility for the time -

Here then gentlemen we
 finish our Physiology -

In easy & pleasant opera-
 tion of functions of the
 body & mind constitutes
 health, or in other words
 health is an equable &
 existence of excitability
 & excrement - Here we
 take the last pleasant
 view of body & mind of
 man - his form full of
 marrow, his eyes & spark

What does our health consist in?

How are aliments divided?

What are the most nutritious principles
in our diet —

Bread, which the most nutritious?

How would you make apple dumplings

Which the best to afford stimuli:

Digestible or indigestible aliment?

Do you any properties in the urine?

Which the most easily digested in cold
same food, turkey?

Does the mode of fattening is

